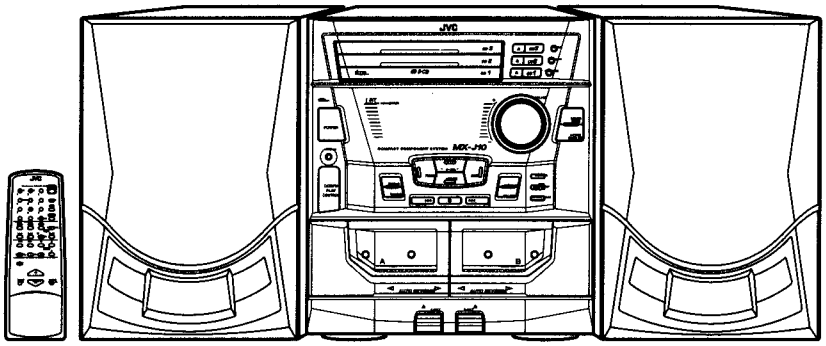
JVC

# SERVICE MANUAL

# MX-J10



SP-MXJ10 CA-MXJ10 SP-MXJ10

COMPACT disc DIGITAL AUDIO

| Area Suffix | |
|---|---|
| B | U.K. |
| E | Continental Europe |
| EE | Russian Federation |
| EN | Nothen Europe |
| EV | Eastern Europe |

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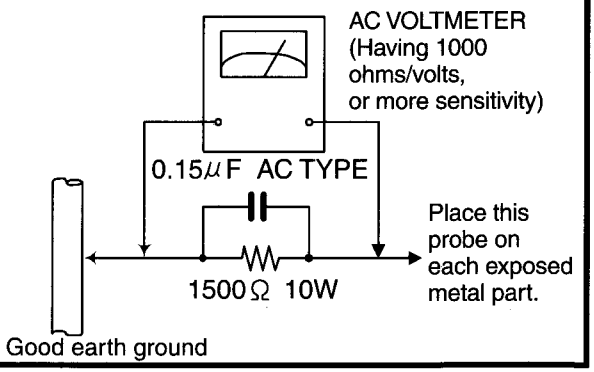
No.20777
Aug. 1999

## Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet , particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.)
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to eachexposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. voltage measured Any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).




## Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

# Important for laser products

**1.CLASS 1 LASER PRODUCT**

**2.DANGER :** Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

**3.CAUTION :** There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

**4.CAUTION :** The compact disc player uses invisible laserradiation and is equipped with safety switches whichprevent emission of radiation when the drawer is open and the safety interlocks have failed or are de feated. It is dangerous to defeat the safety switches.

**5.CAUTION :** If safety switches malfunction, the laser is able to function.

**6.CAUTION :** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

**VARNING :** Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

**VARO :** Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen.

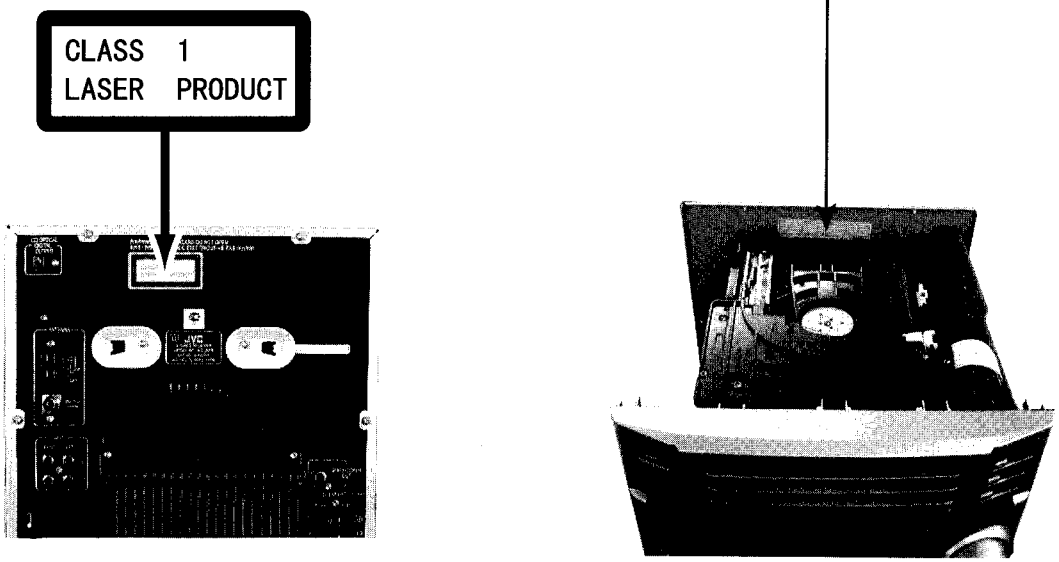
**ADVARSEL :** Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

**ADVARSEL :** Usynlig laserstråling ved åpning,når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

## REPRODUCTION AND POSITION OF LABELS

### WARNING LABEL

| | | | |
|---|---|---|---|
| DANGER : Invisible laser radiation when open and interlock or defeated. AVOID DIRECT EXPOSURE TO BEAM (e) | VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen. (d) | VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen. (s) | ADVARSEL :Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (f) |



MX-J10

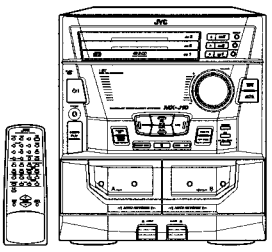
# Instructions

JVC

COMPACT COMPONENT SYSTEM

# CA-MXJ10

JVC
VICTOR COMPANY OF JAPAN, LIMITED



COMPACT disc DIGITAL AUDIO

## INSTRUCTIONS

**For Customer Use:**
Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No.

Serial No.

EN

0699KSMMDWHIT

LVT0301-003A
[B]

## Warnings, Cautions and Others

**IMPORTANT for the U.K.**

**DO NOT** cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

**BE SURE** to replace the fuse only with an identical approved type, as originally fitted.

If nontheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

**IMPORTANT:**

**DO NOT** make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

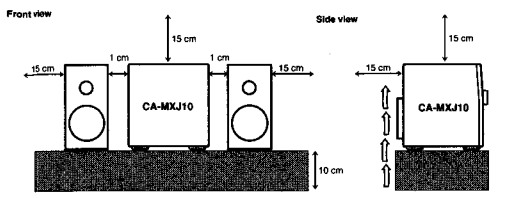
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

**IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.**

**CAUTION**
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

**Caution — ⏻/I switch!**
Disconnect the mains plug to shut the power off completely. The ⏻/I switch in any position does not disconnect the mains line. The power can be remote controlled.

**Caution: Proper Ventilation**
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:
1 Front:
No obstructions and open spacing.
2 Sides/ Top/ Back:
No obstructions should be placed in the areas shown by the dimensions below.
3 Bottom:
Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.




G-1

## IMPORTANT FOR LASER PRODUCTS

**REPRODUCTION OF LABELS**

① CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE

② WARNING LABEL, PLACED INSIDE THE UNIT

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

G-2

Thank you for purchasing the JVC Compact Component System.
We hope it will be a valued addition to your home, giving you years of enjoyment.
Be sure to read this instruction manual carefully before operating your new stereo system.
Here you will find all the information you need to set up and use the system.
For questions that are not be answered in the manual, please contact your dealer.

## Features

Easy operation
COMPU PLAY
Great sound
Triple Tray

Here are some of the things that make your System powerful and easy to use.

- The controls and operations have been redesigned to make them very easy to use, so you can spend your time listening to music.
  - With the One Touch Operation feature of JVC's **COMPU PLAY** you can turn on the System and start the radio, the Cassette Deck, or the CD Player with a single touch.
- To get such great sound from such a compact package the System has:
  - Programmed sound mode includes live surround effects **D. CLUB, HALL,** and **STADIUM**. It also includes S.E.A. (Sound Effect Amplifier) effects **ROCK, CLASSIC,** and **POP**.
- CD changer function can operate 3 discs.
  - Discs can be changed during play using the **TRIPLE TRAY**.
  - Continuous, random or program play of 3 discs.
- Includes a timer for recording broadcasts while you are out, and an easy-to-use Sleep timer.

## How This Manual Is Organized

In this manual we have incorporated some special features:

- Basic information that is the same for many different functions is grouped in one place, and not repeated in each procedure. For instance, in the section on playing a CD, we do not repeat the information about setting the volume and the sound conditions, which are discussed in the Common Operations section.
- Name of buttons and controls are written in all capital letters like this: SOUND MODE.
- When we are talking about the Function, rather than the BUTTON or DISPLAY, only the first letter is capitalized.

The manual has a table of contents to help you quickly look up what you want to know.
We've enjoyed making this manual for you, and hope you will use it to enjoy the sound and many features built into your System.

## IMPORTANT CAUTIONS

**Installation of the Unit**

- Select a place which is level, dry and neither too hot nor too cold. (Between 5°C and 35°C or 41°F and 95°F.)
- Leave sufficient distance between the Unit and a TV.
- Do not use the Unit in a place subject to vibrations.

**Power cord**

- Do not handle the power cord with wet hands!
- Some power (9 watts) is always consumed as long as the power cord is connected to the wall outlet.
- When unplugging the Unit from the wall outlet, always pull the plug, not the power cord.

**Malfunctions, etc.**

- There are no user serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the Unit.



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# Getting Started

## Accessories

Check that you have all of the following items, which are supplied with the System.

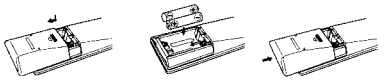
AM (MW/LW) Loop Antenna (1)
Remote Control (1)
Batteries (2)
FM Wire Antenna (1)

If any of these items is missing, contact your dealer immediately.

## How to Put Batteries in the Remote Control

Match the polarity (+ and –) on the batteries with the + and – markings in the battery compartment.

**R6S/R6P (SUM-3)/AA (15F)**

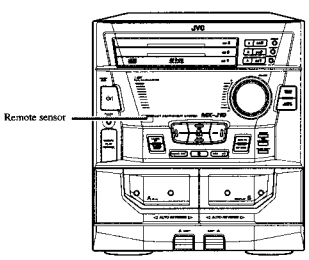


**CAUTION: Handle batteries properly.**
To avoid battery leakage or explosion:

- Remove batteries when the Remote Control will not be used for a long time.
- When you need to replace the batteries, replace both batteries at the same time with new ones.
- Don't use an old battery with a new one.
- Don't use different types of batteries together.

## Using the Remote Control

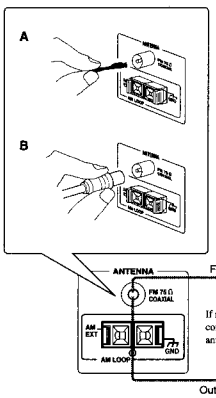
The Remote Control makes it easy to use many of the functions of the System from a distance of up to 7m (23 feet) away.
You need to point the Remote Control at the remote sensor on the System's front panel.






**CAUTION: Make all connections before plugging the Unit into an AC power outlet.**

## Connecting the FM Antenna



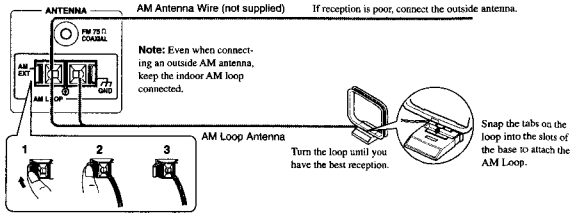

**A. Using the Supplied Wire Antenna**
The FM Wire Antenna provided can be connected to a FM 75 Ω COAXIAL as temporary measure.
Extend the supplied wire antenna horizontally.

**B. Using the Standard Type Connector (not supplied)**
A standard type connector (IEC or DIN 45325) should be connected to the FM 75 Ω COAXIAL terminal.

Before attaching a 75 ohm coaxial lead (the kind with a round wire going to an outside antenna), disconnect the supplied FM Wire Antenna.

**CAUTION: To avoid noise, keep antennas away from metallic parts of the System, connecting cord and the AC power cord.**

## Connecting the AM (MW/LW) Antenna

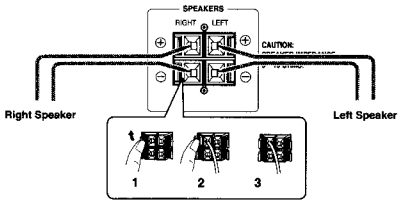

ANTENNA
AM Antenna Wire (not supplied)
If reception is poor, connect the outside antenna.
FM 75 Ω COAXIAL
AM EXT
AM LOOP
GND
Note: Even when connecting an outside AM antenna, keep the indoor AM loop connected.
AM Loop Antenna
1
2
3
Turn the loop until you have the best reception.
Snap the tabs on the loop into the slots of the base to attach the AM Loop.

**CAUTION: Make all connections before plugging the Unit into an AC power outlet.**

## Connecting the Speakers

■ Please refer to instructions for speakers as well when you connect speakers.

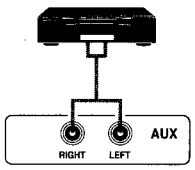
For each speaker, connect one end of the speaker wire to the speaker terminals on the back of the System.
1. Open each of the terminals and insert the speaker wires firmly, then close the terminals.
2. Connect the red (+) and black (–) terminals of the right side speaker to the red (+) and black (–) terminals marked RIGHT on the System.
   Connect the red (+) and black (–) terminals of the left side speaker to the red (+) and black (–) terminals marked LEFT on the System.




**IMPORTANT: Use speakers with the correct impedance only. The correct impedance is indicated on the back panel.**
**CAUTION: If a TV is installed near speakers, the TV may display irregular colours. In this case, set the speakers away from the TV.**

## Connecting Auxiliary Equipment

**VCR or other equipment**
To listen to this source, press the AUX button.




**Now you can plug the AC power cord into the wall outlet, and your System is at your command!**



## COMPU PLAY

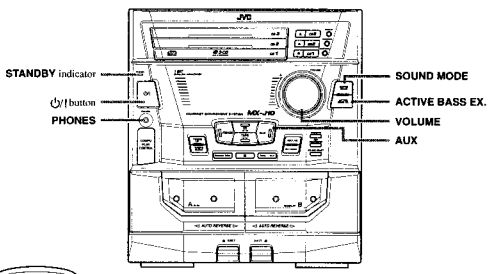
COMPU PLAY is JVC's feature that lets you control the most frequently used functions of the System with a single touch.
One Touch Operation starts playing a CD, turns on the radio, plays a tape, etc. with a single press of the play button for that function. What One Touch Operation does for you is to turn the power on, then start the function you have specified. If the Unit is not ready, such as no CD or tape in place, the Unit still powers on so you can insert a CD or tape.
How One Touch Operation works in each case is explained in the section dealing with that function.
The COMPU PLAY buttons are:

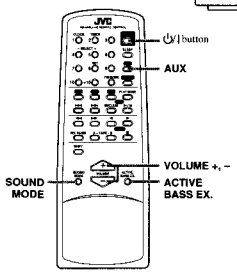
**On the Unit**
- CD ►/II button
- CD Player CD1 to CD3 buttons
- CD Player Open/Close (⏏) buttons
- FM/AM button
- TAPE ◄■ ■► button
- AUX button

**On the Remote Control**
- FM/AM button
- AUX button
- CD control ►/II button
- CD control CD1 to CD3 buttons
- Deck control ◄, ► buttons

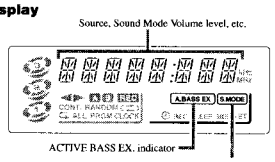


# Common Operations



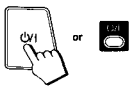




**Display**




When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

## Turning the Power On and Off




**Turning the System On**

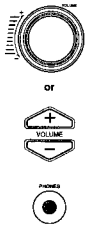
**Press the ⏻/I button.**
The display comes on and the STANDBY indicator goes out.
The System comes on ready to continue in the mode it was in when the power was last turned off.
- If the last thing you were doing was listening to a tape in Deck B, you are now ready to listen to a tape again in Deck B, or you can change to another source.
- If you were listening to the Tuner last, the Tuner comes on playing the station it was last set to.

**Turning the System Off**

**Press the ⏻/I button again.**
The STANDBY indicator lights up and the display is blank, except for the clock display.
- Some power (9 watts) is always consumed even though power is turned off (called Standby Mode).
- To switch off the Unit completely, unplug the AC power cord from the AC outlet. When you unplug the AC power cord, the clock will be reset to 0:00 immediately, and preset Tuner stations will be erased after a few days.



## Adjusting the Volume



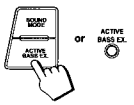

Turn the VOLUME control clockwise to increase the volume or anticlockwise to decrease it.
Turning the VOLUME control quickly also adjusts the volume level quickly.
When using the Remote Control, press the VOLUME + button to increase the volume or press the VOLUME – button to decrease it.
You can adjust the volume level between 0 and 50.

VOLUME 0

**CAUTION: The Volume cannot be adjusted while the Unit is in STANDBY mode. DO NOT turn on the Unit and/or start playing any source without setting the VOLUME control to 0; otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones.**

**For private listening**
Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers.
Be sure to turn down the volume before connecting or putting on headphones.

## Reinforcing the Bass Sound




The richness and fullness of the bass sound is maintained regardless of how low you set the volume. You can use this effect only for playback.

**To get the effect,** press the ACTIVE BASS EX. (Active Bass Extension) button.
The frame around the "A.BASS EX" indicator lights up. A.BASS EX

**To cancel the effect,** press the button again.
The frame around the "A.BASS EX" indicator goes out. A.BASS EX

## Sound Modes

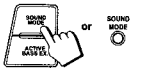
The System has some preset sound effects that give you control of the way your music sounds, so you can tailor it for your room and for the quality of the source. We can give you some idea of how each one affects the music, but the only way to really tell is to try them yourself.
■ The preset sound modes include modes using surround effects and modes using S.E.A. effects.
■ Sound Mode effects cannot be recorded.

**Surround effect modes**

| | |
|---|---|
| **D. CLUB (Dance Club)** | Increases resonance and bass. |
| **HALL** | Adds depth and brilliance to the sound, like in a concert hall. |
| **STADIUM** | Adds clarity and spreads the sound, like in an outdoor stadium. |

**S.E.A. effect modes**

| | |
|---|---|
| **ROCK** | Boosts low and high frequencies. |
| **CLASSIC** | Set for wide and dynamic sound stereo systems. |
| **POP** | Good for vocal music. |




**To get an effect,** press the SOUND MODE button repeatedly until the Sound Mode you want appears on the display. The frame around the "S.MODE" indicator lights up.
Each time you press the SOUND MODE button, the display changes as shown below: S.MODE

→ **D. CLUB** → **HALL** → **STADIUM** → **ROCK** → **CLASSIC** → **POP** → **FLAT** → (back to the beginning)

**To cancel an effect,** press the SOUND MODE button until "FLAT" appears on the display. The frame around the "S.MODE" indicator goes out. S.MODE

**To recall the previous Sound Mode,** press the SOUND MODE button again.

## Listening to Auxiliary Equipment

By playing the sound from auxiliary equipment through the System, you can gain control over how the music or program sounds. Once the connected equipment is playing through the System, you can apply the sound effects.

■ First make sure that the optional equipment is properly connected to the System. (See page 5).

**1. Set the VOLUME control to 0.**

**2. Press the AUX button.**
When System is in Standby mode, the Unit is automatically turned on and "AUX" appears on the display.



**3. Start playing the equipment.**

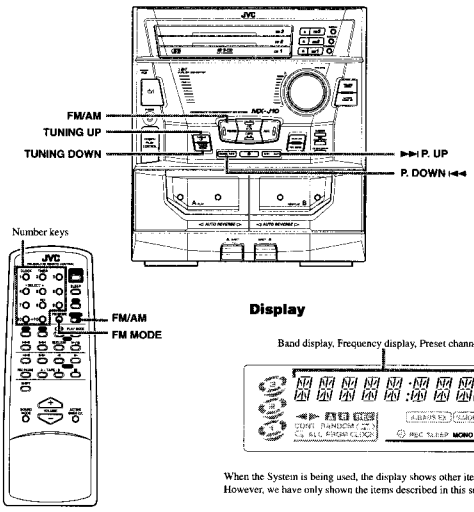
**4. Adjust the VOLUME control to the desired listening level.**

**5. Select a sound effect mode, if you wish.**

**To Cancel the Setting**
Change the source by starting any one of the System's built-in sound sources, such as the Tuner or CD Player.

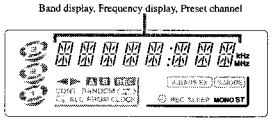


## Using the Tuner




**Display**

Band display, Frequency display, Preset channel



When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

You can listen to both FM and AM (MW/LW) stations. Stations can be tuned in manually, automatically, or from preset memory storage.

■ Before listening to the radio:
- Check that both the FM and AM (MW/LW) antennas are firmly connected. (See page 4.)

**One Touch Radio**
Just press the FM/AM button to turn on the Unit and start playing the most recent station tuned in.
■ You can switch from any other sound source to the radio by pressing the FM/AM button.

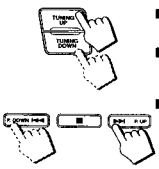
## Tuning in a Station

**Press the FM/AM button to turn on the radio.**
The frequency of the previously selected channel appears on the display.

**Switching between Frequency Bands**
**Press the FM/AM button.**
Each time you press the button, the band alternates between FM and AM (MW/LW).



**Three ways to select a station**



■ Press the TUNING UP or TUNING DOWN button repeatedly to move from frequency to frequency until you find the one you want. (Manual Tuning).
OR
■ Press and hold the TUNING UP or TUNING DOWN button for a few seconds, and the frequency starts changing on the display. When a station is tuned in, the frequency stops changing. (Auto Tuning).
OR
■ Possible only after presetting stations.
Press once and release the P. DOWN I◀◀ or ▶▶I P. UP button to go to the next preset station.

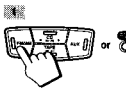
**You can also use the Remote Control to tune in preset channels:**
1. Press the FM/AM button so that you can receive the most recent station tuned in.
2. Select the station by entering the preset number on the number keys of the Remote Control.
   - Example: For channel 5, press 5. For channel 15, press +10 then 5.
     For channel 20, press +10, then 10. For channel 30, press +10 twice then 10.



- After you have selected the preset number and the number is displayed, the broadcast frequency of the selected channel is displayed.

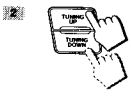
## Presetting Stations

You can preset up to 30 FM stations and up to 15 AM stations for the preset numbers.
**Note:** In some cases, test frequencies have been already memorized for the tuner since the factory examined the tuner preset function before shipment. This is not a malfunction. You can preset the stations you want into memory by following the presetting method.



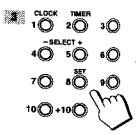
**1. Select a band by pressing the FM/AM button.**

**2. Press the TUNING UP or TUNING DOWN button to tune into a station.**



**3. Setting the preset number by pressing the number keys on the Remote Control:**

**For preset numbers 1 to 10:**
Press and hold the number key for the preset number you want to set.
**For preset numbers 11 to 20:**
Press and hold the 1 to 10 buttons after pressing the +10 button.
**For preset numbers 21 to 30:**
Press and hold the 1 to 10 buttons after pressing the +10 button twice.



Release the button after the number starts to blink. This completes the preset setting.

**4. Repeat steps 1 – 3 for each station you want to store in memory with a preset number.**

**CAUTION: If the Unit is unplugged or if a power failure occurs, the preset stations will be erased after a few days. If this happens, preset the stations again.**

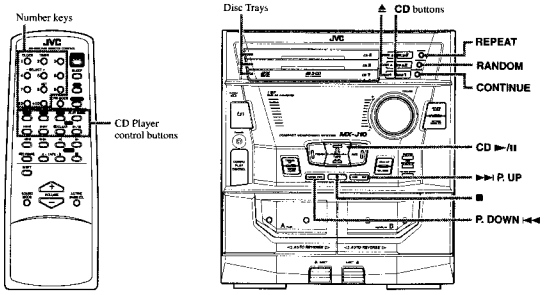
## Changing the FM Reception Mode

When an FM stereo broadcast is hard to receive or noisy, press the FM MODE button on the Remote Control so that the "MONO" indicator lights up on the display. Reception improves, but there is no stereo effect.

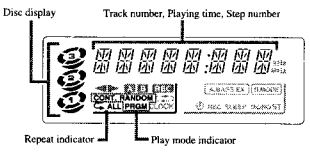
**To restore the stereo effect,** press the FM MODE button on the Remote Control so that the "MONO" indicator goes off. In this stereo mode, the "ST" indicator lights up and you can hear stereo effects, when a program is broadcast in stereo.



## Using the CD Player




**Display**




When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

**Disc display**
A red marker lights on the disc display for the disc number you have selected. This disc display blinks while a CD is being played.
The centre of the disc display is not lit while CD Player is checking that there is no disc in the disc tray for the corresponding disc number.

Disc marker

The System's CD Player has an Automatic Changer with 3 disc trays. You can use Continuous, Random, Program or Repeat Play for the discs in CD1, CD2 and CD3. Repeat Play can repeat all the tracks on all the CD's, the tracks on one of the CD's or one track on one CD. There is also the Tray Lock function, which safely keeps discs in the trays.

Here are the basic things you need to know to play a CD and locate the different selections on it. Each selection is called a track, so when we are talking about locating a track, we are also talking about how you find a certain song or performance.

COMPU PLAY

### The Quickest Way to Start a CD Is with the One Touch Operation

■ Press the CD ►/II button (or the ►/II button on the Remote Control).

**For Normal Play (Play mode indicator is not lit):**

- If there is a CD in the disc tray for the selected disc number, the power is automatically turned on and the CD is played from the first track.
- If there is no CD in the disc tray for the selected disc number, the power is automatically turned on and "NO DISC" appears on the display. The CD Player is in stop mode.

**For Continuous Play or Random Play in Display mode (CONT. or RANDOM indicators are lit):**

- If there is a CD in the disc tray for the selected disc number, the power is automatically turned on and the CD is played continuously from the first track or the tracks are played in random order.
- If there is no CD in the disc tray for the selected disc number, the power is automatically turned on and other tray containing a CD is selected and is played continuously from the first track or the tracks are played in random order.
- If there are no CDs in CD player, the power is automatically turned on and "NO DISC" appears on the display in Normal Play mode. The CD Player is in stop mode.

■ Press a CD1, CD2 or CD3 button.

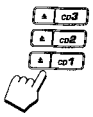
**For Normal Play (Play mode indicator is not lit):**

- If there is a CD in the disc tray for the selected disc number, the power is automatically turned on and playback starts from the selected CD.
- If there are no CDs in CD Player, the power is automatically turned on and "NO DISC" appears on the display in Normal Play mode. The CD Player is set to stop mode.

■ Press the ≙ button.

- The power turns on, and the tray opens automatically.

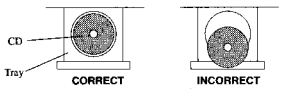
## Inserting Discs




**1. Press the ≙ button on the left of the Disc button you want to insert the disc into.**
The disc tray slides out automatically.

**2. Place a CD, with its label side up, onto the tray.**

***ATTENTION:*** *To avoid malfunctions when you play a CD, please set the CD in the right place at the centre of the tray.*




**3. Press the ≙ button to close the tray.**

**4. Repeat steps 1 to 3 to insert other discs into other trays.**

- To continue putting discs into other trays, even if a tray is open, by pressing the ≙ button of another disc tray, the open tray will close automatically, and the new disc tray will slide out.

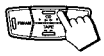
■ To put an 8 cm CD into a tray, insert it so that it is aligned with the groove in the tray's centre.
■ If a tray is open when the System switches to Standby mode, the tray is closed automatically.
■ If the CD cannot be read correctly (due to scratches etc.), "00 00000" appears on the display.



## Basics of Using the CD Player — Normal Play

### Playing a Disc

**1. Prepare the discs.**



**2. Press the CD ►/II or CD1, CD2 or CD3 button of the disc you want to play.**
When using the Remote Control, press the ►/II button or the CD1, CD2 or CD3 buttons.
The first track of the selected disc will begin playing.
The CD Player automatically stops when the playback finishes the last track of the CD.

- If these buttons are pressed while the tray is open, the tray is automatically closed and playback starts.

or

**To stop playing the disc,** press the ■ button (or the ■/CLEAR button on the Remote Control).
**To stop play and remove the disc,** press the ≙ button for the disc being played.
**To pause,** press the CD ►/II button (or the ►/II button on the Remote Control). The display will blink.
**To cancel pause,** press the CD ►/II button again (or press the ►/II button on the Remote Control). Play continues from the point where it was paused.

### Selecting a Disc, Track or Passage Within a Track

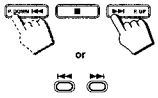
**1. Press the CD1, CD2 or CD3 button for the disc tray containing the track you want to listen to.**

- Example: for the third disc, press CD3.

**2. Press the P. DOWN I◄◄ or ►►I P. UP button to select the track.**
The selected track starts playing.
Each time you briefly press and release the P. DOWN I◄◄ or ►►I P. UP button, the track changes by one.

- Press and release the ►►I P. UP button to go ahead one track at a time.
- Press and release the P. DOWN I◄◄ button to go back one track at a time.

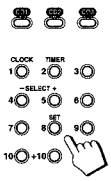
Holding down the P. DOWN I◄◄ or ►►I P. UP button, during playback, will fast forward/backwards the CD so you can quickly find a particular passage in the selection you are listening to.




When using the Remote Control, press the I◄◄ or ►►I button.

### Locating a Track with the Remote Control Directly

Using the number keys on the Remote Control allows you to go directly to the beginning of any track.




**1. Press the CD1, CD2 or CD3 button for the disc tray containing the track you want to listen to.**

- Example: for the third disc, press CD3.

**2. Enter the number of the track you want to listen to with the number keys.**
The selected track starts playing.

- Example: For track 5, press 5. For track 15, press +10 then 5. For track 20, press +10, then 10. For track 32, press +10 three times, then 2.

### Changing Discs While Playing

You can replace a CD in a tray not being used, while another CD is playing.

**1. Press the ≙ button of the tray not being used.**
The tray opens.

**2. Replace the disc in the tray.**

**3. Press the ≙ button to close the tray.**



## Continuous Play

This function plays the disc in the Unit continuously.

**1. Prepare the discs.**

**2. Select Continuous mode.**

***On the Unit***

**Press the CONTINUE button.**
The playback automatically starts from the selected CD.

- "CONT." on the Play mode indicator lights up.

You can press the CONTINUE button while a CD is playing to switch to Continuous mode.

***On the Remote Control***

**1. Press the PLAY MODE button while the CD Player is stopped, to select "CONTINUE".**

- "CONT." lights in the Play mode indicator. The display changes with each press of the PLAY MODE button as shown below.

→ **PROGRAM** → **RANDOM** → **CONTINUE** → (back to the beginning)

**2. Press the CD1, CD2 or CD3 button or ►/II button.**
Playback starts from the selected CD.

**Playing order of the CDs**
The selected CDs are played continuously in the following order.
→ **CD1** → **CD2** → **CD3** → (back to the beginning)

**To cancel Continuous play,** press the CONTINUE button again. The "CONT." indicator on the display goes out and Normal Play is resumed. When using the Remote Control, press the PLAY MODE button while the CD Player is stopped to select a different Play mode. The "CONT." indicator goes out and the next Play mode is selected.

## Programming the Playing Order of the Tracks

You can change the order in which the discs and tracks play, and select only the discs and tracks you want from among those loaded in the CD Player.

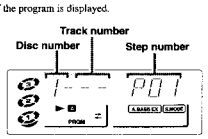
■ You can program up to 20 steps in any desired order from among the discs in the player.
■ You can only make a program when the CD Player is stopped.
■ Use the Remote Control.

**1. Press the PLAY MODE button to select "PROGRAM".**
The display changes with each press of the PLAY MODE button as shown below.

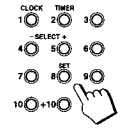
→ **PROGRAM** → **RANDOM** → **CONTINUE** → (back to the beginning)

- The "PRGM" play mode indicator lights up.
- If a program is already in progress, the last step of the program is displayed.

**2. Select a disc with the CD1, CD2 or CD3 button.**
The display changes to the Program Entry display.

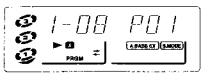





**3. Press the number keys (1 to 10 and +10) to select the track to program.**

- Example: For track 5, press 5.
  For track 15, press +10 then 5.
  For track 20, press +10 then 10.




**4. Repeat steps 2 to 3 to select the other tracks for the program.**

**5. Press the ►/II button.**
The Unit plays the tracks in the order you have programmed them.

■ If you try to program a disc tray that is empty, or a track number that does not exist on a disc (for example, selecting track 14 on a disc that only has 12 tracks), the selected disc or track are skipped when the program is played.
■ You can skip to a particular program step by pressing the I◄◄ or ►►I button during Program Play.
■ To play the programmed tracks over and over, press the REPEAT button to select "↻ **ALL**". The Repeat mode indicators light up in sequence with each press of the REPEAT button.

**To stop playing,** press the ■ button (or the ■/CLEAR button on the Remote Control) once.
**To delete all the tracks in a program,** press the ■ button on the Unit (or the ■/CLEAR button on the Remote Control) while the CD Player is stopped. The program is deleted and the "PRGM" play mode indicator goes out and Normal Play is resumed.
**To cancel program play,** press the PLAY MODE button on the Remote Control while the CD Player is stopped to select a different Play mode. The "PRGM" indicator goes out and the next Play mode is selected.

**Note:** If you press the CONTINUE or RANDOM button on the Unit while a program is playing, the play mode changes to that mode.

## Random Play

The tracks will play in no special order when you use this mode.

***On the Unit***

**Press the RANDOM button.**
The playback automatically starts from the selected CD.

- "RANDOM" on the Play mode indicator lights up.

You can press the RANDOM button while a CD is playing to switch to Random play mode.

***On the Remote Control***

**1. Press the PLAY MODE button while the CD Player is stopped, to select "RANDOM".**

- "RANDOM" lights in the Play mode indicator.

The display changes with each press of the PLAY MODE button as shown below.

→ **PROGRAM** → **RANDOM** → **CONTINUE** → (back to the beginning)

**2. Press the ►/II button.**
Playback starts from the selected CD.

**Note:** Random Play cannot be activated with the CD1, CD2 or CD3 button.

**To skip to the next track,** press the ►►I button during playback. The next track is jumped to with each press of the button. Press the I◄◄ button to jump to the start of the track being played.

■ Press the REPEAT button before or during random play to instruct the System to continue with a different random track selection after the last selection is played.

**To cancel random play,** press the RANDOM button again. The "RANDOM" play mode indicator goes out and Normal Play is resumed. When using the Remote Control, press the PLAY MODE button while the CD Player is stopped to select a different Play mode. The "RANDOM" indicator goes out and the next Play mode is selected.

## Repeating a Selection or the Discs

You can have all the discs, the program or the individual selection currently playing repeat as many times as you like.

**Press the REPEAT button on the Unit.**
The display changes with each press of the button, as shown below.

→ ↻ → ↻ ALL → (back to the beginning)

↻ : Repeats one track on a CD.
↻ ALL: For Normal Play, repeats all the tracks on the current CD.
For Continuous Play or Random Play, repeats all the tracks on all the CDs in the CD Player.
For Program Play, repeats all the tracks in the program.

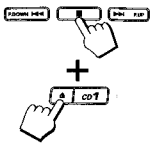
**To exit Repeat Mode,** press the REPEAT button until the Repeat mode indicator on the display goes out.

## Tray Lock Function

In order to safely keep the discs in the CD Player, the three trays can be electronically locked in a single operation.
When the electronic lock is on, the trays cannot be opened even if the ≜ button is pressed.
This function can only be accessed by using the buttons on the Unit itself.

### Locking the Electronic Lock

**1. Put the System's power into STANDBY mode.**



**2. While pressing the ■ button, press the ≜ button for CD1's tray on the Unit.**
"LOCK ON" appears on the display to let you know that the trays have been locked.

When the CD Player trays are locked, pressing the ≜ buttons displays the message "LOCK ON" on the display and the trays do not open. Also, the ≜ button cannot be used to automatically turn on the power.

### Unlocking the Electronic Lock

**1. Put the System's power into STANDBY mode.**

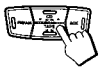
**2. While pressing the ■ button, press the ≜ button for CD1's tray on the Unit.**
When the unlock operation is done, "LOCK OFF" appears on the display to show that the lock has been taken off.



The trays can now be opened by pressing the ≜ buttons.
The ≜ button can also be used to automatically turn on the power.



**3. Close the holder gently.**
When both Deck A and Deck B contain a tape, the last deck to have a tape inserted is selected.
To change the selected deck, press the DECK A/B button. When using the Remote Control, press the A or B button.



**4. Press the TAPE ◄ ► button (or ◄ or ► button on the Remote Control).**
The tape is played in the direction of the button pressed for the selected deck.
- The Cassette Deck automatically stops when one side of a tape has finished playing.

**To stop playing,** press the ■ button.
**To remove the tape,** stop the tape, and press the ≜ EJECT button.
**To change decks while playing a tape,** press the TAPE ◄ ► button after pressing the DECK A/B button on the Unit or press the ◄ or ► button after pressing the A or B button on the Remote Control.

### Fast Left and Fast Right

■ While the tape is stopped, press the P. DOWN |◄◄ button (or ◄◄ button on the Remote Control) and the tape will wind rapidly onto the left side of the cassette without playing.
■ While the tape is stopped, press the ►►| P. UP button (or ►► button on the Remote Control) and the tape will wind rapidly onto the right side of the cassette without playing.

**Note:** Deck A and Deck B cannot be used for playback at the same time.

## Music Scan

To find the beginning of a music track during play, use the Music Scan function. Music Scan searches for blank portions that usually separate selections, then plays the next selection.

### Finding the Beginning of the Current Selection

**Press the P. DOWN |◄◄ or ►►| P. UP button (or the ◄◄ or ►► button on the Remote Control) during play.**
■ Make sure that you press the P. DOWN |◄◄ or ►►| P. UP button (or the ◄◄ or ►► button on the Remote Control) in the opposite direction to that in which the tape is playing. Searching stops at the beginning of the current selection, and the current selection starts automatically.

### Finding the Beginning of the Next Selection

**Press the P. DOWN |◄◄ or ►►| P. UP button (or the ◄◄ or ►► button on the Remote Control) during play.**
■ Make sure that you press the P. DOWN |◄◄ or ►►| P. UP button (or the ◄◄ or ►► button on the Remote Control) in the same direction as that in which the tape is playing. Searching stops at the beginning of the next selection, and the next selection starts automatically.

**Music Scan works by detecting a 4-second long blank at the beginning of each selection, so it won't work well if your tape has:**
- No blank at the beginning of a selection .
- Noise (often caused by much use or poor quality dubbing) which fills the blank.
- Long, very soft passages or pauses in a selection. The scan will detect these as 4-second long blanks. If this happens, just scan again until you reach the selection you want.

## Reverse Mode

You can play both sides of a cassette, or play both the tapes in the two Cassette Decks continuously.

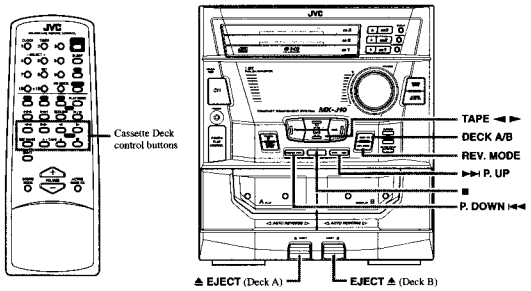
**Press the REV. MODE button to switch to Reverse Mode.**
The indicator changes with each press of the button as shown.

→ ⇄ → ⇄) → (⇄) → (back to the beginning)

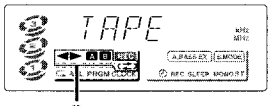
⇄ : The Cassette Deck automatically stops after playing one side of the tape.
⇄) : The Cassette Deck automatically stops after playing both sides of the tape being played (or set to play).
(⇄) : After playing both sides of the tape being played (or set to play), the Unit always checks to see if a tape is in the other deck. If there is, it automatically starts playing that tape. This Continuous Play function works regardless of which deck starts first. The tapes are played continuously until the ■ button is pressed.



## Using the Cassette Deck (Listening to a Tape)




### Display




◄► : Tape Direction indicator
A B : DECK A, B indicator
(⇄) : Reverse Mode indicator

**Tape Direction Indicator on the Display**
The Tape Direction indicator tells you which direction the selected tape deck will use for playback.
During playback, the direction indicator blinks slowly.
During fast left or fast right, the indicator blinks quickly.
During Music Scan mode, the direction indicator alternates between blinking slowly and quickly repeatedly.

When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

The Cassette Deck allows you to play, record and dub audio tapes.
■ With Automatic Tape Detection, you can listen to Type I or II tapes without changing any settings.

The use of tapes longer than 120 minutes is not recommended, since characteristic deterioration may occur and these tapes easily jam in the pinch-rollers and the capstans.

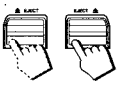
### One Touch Play

COMPU PLAY

By pressing the TAPE ◄ ► button (or the ◄ or ► button on the Remote Control), the Unit will come on, "TAPE" appears in the display, and if a tape is in the deck, it will start to play. If no tape is loaded, the Unit will come on and wait for you to insert a tape, or select another function.

## Regular Play

When the power is already on, you can use this basic procedure:

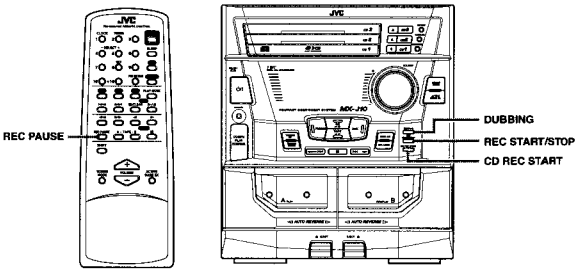


**1. Press the ≜ EJECT button for the deck you want to use.**

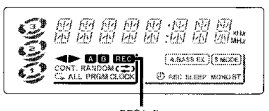
**2. When the cassette holder opens, put the cassette in, with the exposed part of the tape down, toward the base of the System.**
- If the cassette holder does not open, turn the Unit off, then back on and press the ≜ EJECT button again.



## Using the Cassette Deck (Recording)




### Display




REC indicator

When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

Recording onto a cassette from any of the sound sources is simple. Just place a tape in Deck B, have the source ready, make one or two settings, and you're ready to record. For each source the procedure is a little bit different and now we'll explain just what to do for each one. If you forget, just come back to the section which has the specific procedures you need. But first, here are a few things to make your recordings better.

### Things to Know Before You Start Recording

■ **It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic embodied therein.**
■ When you want to record onto both sides of a tape, you can set Reverse mode on to do so. However, recording automatically stops after recording in the ◄ direction in Reverse mode. Therefore, make sure that the tape direction is ► when recording with Reverse mode on.
■ The recording level, which is the volume at which the new tape is being made, is automatically set correctly, so it is not affected by the VOLUME control on the System. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
■ Two small tabs on the back of the cassette tape, one for side A and one for side B, can be removed to prevent accidental erasure or re-recording. To record on a cassette with the tabs removed, you must cover the holes with adhesive tape first.
However, when a Type II tape is used, only cover part of the hole as shown, since the other part of the hole is used to detect the tape type.



■ When recording, you can hear Sound Mode effects through the speakers or headphones. However, the sound is recorded without Sound Mode effects.
■ Type I and Type II tapes can be used for recording.

**Note:** At the start and end of cassette tapes, there is leader tape which cannot be recorded onto. Depending on the recording source, the first part of the recording may be missing because of the leader. When recording CDs or radio broadcasts, to get the beginning of the recording on the tape, first wind on the leader before beginning recording.

**CAUTION: If recordings you have made have excessive noise or static, the Unit may be too close to a TV which was on during the recording. Either turn off the TV or increase the distance between the TV and the System.**

## Standard Recording

This is the basic method for recording any source. The System also has special ways for recording CD to tape, and tape to tape, which save you time and effort, as well as give you some special effects. However, when you need to add a selection to a tape you have made, or are combining selections from several sources on one tape, use the method described below; just substitute the source you want into this procedure, such as a tape in Deck A, a CD, or the Tuner. You can also record from auxiliary source with this procedure.

### Recording Any Sound Source to Tape

Follow these steps to record from any sound source onto a tape in Deck B.

***Using the Unit***

**1. Insert a blank or erasable tape into Deck B.**

**2. Press the REV. MODE button if you want to record on both sides of the tape.**
Press the button until the "⇄" or "↻⇄" indicator is lit.
- When using Reverse Mode, insert the tape so that it will be recorded in the forwards ► direction.

**3. Check the recording direction for the tape.**
Check that the Tape Direction indicator is the same as that for the tape in the tape deck. If the directions are different, press the ■ button after pressing the TAPE ◄■ ►■ button to set the tape direction.
- When using Reverse Mode to record both sides of a tape, check that the Tape Direction indicator is in the forwards ► direction. If the direction indicator is not in the forwards ► direction, press the TAPE ◄■ ►■ button then press the ■ button.

**4. Prepare the source by for example, tuning in a radio station, loading CDs, or turning on connected equipment.**

**5. Press the REC START/STOP button.**
The "REC" indicator light comes on and the System begins recording.

***Using the Remote Control***

**1. Insert a blank or erasable tape into Deck B.**

**2. Press the REV. MODE button on the Unit if you want to record on both sides of the tape.**
Press the button until the "⇄" or "↻⇄" indicator is lit.
- When using Reverse Mode, insert the tape so that it will be recorded in the forwards ► direction.

**3. Prepare the source by, for example, tuning in a radio station, loading CDs, or turning on connected equipment.**

**4. Press the REC PAUSE button.**
The "REC" indicator blinks.

**5. Press the ◄ or ► button.**
Recording starts in the direction of the button pressed.
- When using Reverse Mode to record both sides of a tape, press the ► button.

### Notes for using Reverse Mode for recording

When recording in Reverse Mode, the System automatically stops when it reaches the end of the reverse ◄ direction. To record on both sides of a tape, make sure that the recording direction for the tape inserted into Deck B is forwards ►, and that the Tape Direction indicator is also forwards ►, before you start recording.



### To Pause at Any Time During the Recording Process

Press the REC PAUSE button on the Remote Control. Then press either the ◄ or ► button on the Remote Control or REC START/STOP button on the Unit to restart recording.

### To Stop at Any Time During the Recording Process

Press the REC START/STOP button on the Unit again, or press the ■ button on the Remote Control.

### Recording AM (MW/LW) station to tape

When recording an AM (MW/LW) broadcast, beats may be produced which are not heard when listening to the broadcast. In this case, press the CONTINUE button on the CD Player to eliminate the beats.

1. Set to AM (MW/LW) station and start recording.
2. Press the CONTINUE button to eliminate the beats.
   Each time you press the button, the display changes as shown below:
   → CUT-1 → CUT-2 → CUT-3 → CUT-4 → (back to the beginning)

## CD Direct Recording

Everything on the CD goes onto the tape in the order it is on the CD, or according to the order you have set in a program.

**1. Prepare CDs. (See page 13.)**
If the current playing source is not the CD player, press CD ►/II, then ■ of the CD control before going to the next step.

**2. Insert a cassette in Deck B to record on.**
When you want to record on both sides of a tape, press the REV. MODE button to turn Reverse Mode on. Check that the recording direction for the tape and the Tape Direction indicator are correct. (See page 21 "Notes for using Reverse Mode for recording".)

**3. Press the CD REC START button.**
The "REC" indicator light comes on and the System begins recording.
**If you make a recording with Reverse Mode on:**
If the tape reaches its end while recording a song, the last song will be re-recorded at the beginning of the other side.

**To stop at any time during the recording process,** press the ■ button.

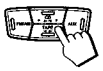
**Note:** When making Sleep timer settings while doing CD Direct recording, set the time so that there is enough leeway to finish the recording before the power goes off. If the time is set to about the length of the CD, the power may go off before recording finishes.

For CD Direct Recording using more than one disc, use a blank tape. If you use a prerecorded tape, prerecorded material may not be erased between newly-recorded tracks.

## Tape to Tape Recording (Dubbing)

Recording from one tape to another is called dubbing.
You can dub tapes simply, with just a single button.
- When dubbing tapes, make sure that the playback direction of Deck A and Deck B are the same.
- When you want to record both sides of a tape, press the REV. MODE button to turn Reverse mode on.
- It is preferable that the type of tape (Type I or Type II) you record from be the same as the type you record onto.

### How to Use the DUBBING Button



**1. Press the TAPE ◄■ ►, then the ■ button.**

**2. Insert the source cassette you want to copy from into Deck A for playback.**
Insert the cassette so that it will be played in the forwards ► direction.

**3. Insert the blank or erasable cassette you want to copy onto into Deck B for recording.**
Insert the cassette so that it will be recorded in the forwards ► direction.

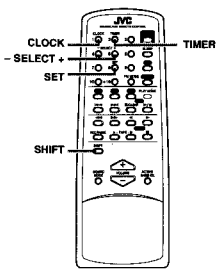
**4. Press the DUBBING button.**
Deck A and Deck B will start simultaneously.

**To stop dubbing,** press the ■ button or REC START/STOP button.

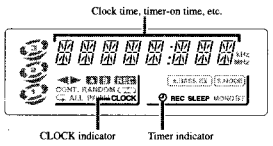
- When doing dubbing with the DUBBING button, you can hear Sound Mode effects through the speakers or headphones. However, the sound is dubbed without Sound Mode effects.



# Using the Timer




### Display




When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

The timers let you control listening and recording functions automatically.
**Use the Remote Control to set the clock and timers.**

## Setting the Clock

The timers depend on the clock: the clock must be right for the timers to work as you expect.
You can set the clock whether the Unit is on or off.
**Note that the clock must be set, otherwise the timers cannot be set.**

**1. Press the SHIFT button.**

**2. Press the CLOCK button.**
The "CLOCK" indicator on the display lights up and the clock time blinks.

**3. Press the SELECT + or – button to set the time.**
Pressing the SELECT + button increases the time and pressing SELECT – decreases the time. Pressing the button continuously advances or delays the time in 10 minute intervals.

**4. Press the SET button.**
The blinking time display changes from a blinking display to a steady display and the clock timer starts from 0 seconds.

**CAUTION: If there is a power failure, the clock loses its setting. The display shows "0:00", and the clock must be reset.**



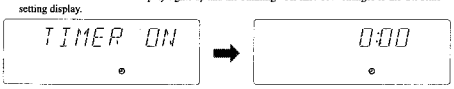
## Setting the Timer

■ You can set the Timer whether the Unit is on or off.

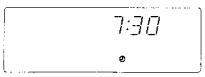
### Procedure For Setting the Timer

**1. Press the SHIFT button.**

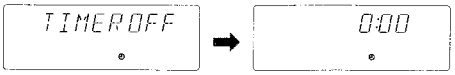
**2. Press the TIMER button.**
The Timer indicator on the display lights up and the blinking "TIMER ON" changes to the On Time setting display.



**3. Set the time you want the Unit to come on.**
Press the SELECT + or – button to set the On Time.



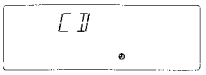
**4. Press the SET button.**
"TIMER OFF" blinks on the display, and the display changes to the Off Time setting display.



**5. Set the time you want the Unit to be turned off.**
Press the SELECT + or – button to set the Off Time.

**6. Press the SET button.**
The name of the source blinks in the display.

**7. Press the SELECT + or – button to select the source.**
The display changes with each press of the button as shown.



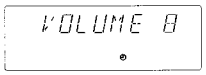

↔ TUNER ↔ TUNER REC ↔ CD ↔ TAPE ↔

**TUNER:** Selects the last station you were listening to.
**TUNER REC:** Records the last station you were listening to.
**CD:** Plays the last CD you were listening to.
**TAPE:** Plays the last tape you were listening to.

- In the source "TUNER", "CD", or "TAPE", the timer acts as a Daily timer. Once the Daily timer has been set, it will be activated at the same time every day until the setting is turned off.
  In the source "TUNER REC", the timer acts as a Once timer. After the Once timer has been performed, the details of the setting remain stored but the Timer status is set to off.

**9. Press the SET button.**
The volume level blinks on the display.

**10. Press the SELECT + or – button to set the volume level.**




**11. Press the SET button.**
The display returns to the display before you set the timer.

**Before Turning the Unit Off**
- Check that the selected source is ready.
- If you will be recording a source while you are out, set the volume to 0.

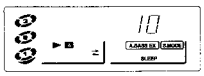
**To turn the Timer off,** press the SHIFT button and then the TIMER button. The Timer indicator on the display goes out.

## Setting the Sleep Timer

Use the Sleep Timer to turn the Unit off after a certain number of minutes when it is playing. By setting this timer, you can fall asleep while listening to music and know your Unit will turn off by itself rather than play all night.
- You can only set the Sleep Timer when the Unit is on and a source is playing.

**To set the Sleep Timer, follow this procedure:**

**1. With the System on and a source playing, press the SLEEP button on the Remote Control.**




**2. Set the length of time you want the source to play before shutting off.**
- Each time you press this button, it changes the number of minutes shown on the display in this sequence:

→ 10 → 20 → 30 → 60 → 90 → 120 → Cancelled

When the number of minutes you want shows on the display, just wait 5 seconds until the number of minutes stops blinking, and is lighted steadily.
The Unit is now set to turn off after the number of minutes you set.

**To Change the Sleep Timer Setting**
Press the SLEEP button until the number of minutes you want appears on the display.

**To Cancel the Sleep Timer Setting**
Press the SLEEP button until the "SLEEP" indicator goes off on the display.
Turning off the Unit also cancels the Sleep Timer.



# Care And Maintenance

### Compact Discs

Handle your compact discs, cassette tapes, and Cassette Deck carefully, and they will last a long time.

- Remove the CD from the case by holding it at the edges while pressing the centre hole lightly.
- Do not touch the shiny surface of the CD, or bend the CD.

- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.

- A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line from centre to edge.

**CAUTION: Do not use any solvent (for example, conventional record cleaner, spray thinner, benzine, etc.) to clean a CD.**

### Moisture Condensation

Moisture may condense on the lens inside the Unit in the following cases:
- After starting the heating in the room.
- In a damp room.
- If the unit is brought directly from a cold to a warm place.

Should this occur, the Unit may malfunction. In this case, leave the unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

### General Notes

In general, you will have the best performance by keeping your tapes, CDs, and the mechanism clean.
- Store tapes and CDs in their cases, and keep them in cabinets or on shelves.
- Keep the Cassette Deck's tape doors and the CD trays closed when not in use.

### Cassette Tapes

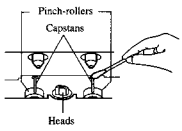
- If the tape is loose in its cassette, take up the slack by inserting a pencil in one of the reels and rotating.
- If the tape is loose, it may get stretched, cut, or caught in the cassette.

- Do not touch the tape surface.

- Do not store the tape:
  - In dusty places
  - In direct sunlight or heat
  - In moist areas
  - On a TV or speaker
  - Near a magnet

### Cassette Deck

- If the heads, capstans, and pinch-rollers of the Cassette Deck become dirty, the following will occur:
  - Loss of sound quality
  - Discontinuous sound
  - Fading
  - Incomplete erasure
  - Difficulty recording
- Clean the heads, capstans, and pinch-rollers using a cotton swab moistened with alcohol.




- If the heads become magnetized, the Unit will produce noise or lose high frequencies.
- To demagnetize the heads, turn off the Unit, and use a head demagnetizer (available at electronics and record shops).



# Troubleshooting

- If you are having a problem with your System, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the Unit has been physically damaged, call a qualified person, such as your dealer, for service.

| Symptom | Possible Cause | Action |
|---|---|---|
| No sound is heard. | Connections are incorrect, or loose. | Check all connections and make corrections. (See pages 4 – 5.) |
| Unable to record. | Cassette record protect tabs are removed. | Cover holes on back edge of cassette with tape. |
| Poor radio reception. | • The antenna is disconnected.<br>• The AM Loop Antenna is too close to the Unit.<br>• The FM Wire Antenna is not properly extended and positioned. | • Reconnect the antenna securely.<br>• Change the position and direction of the AM Loop Antenna.<br>• Extend FM Wire Antenna to the best reception position. |
| The CD skips. | The CD is dirty or scratched. | Clean or replace the CD. |
| Unable to operate the Remote Control. | • The path between the Remote Control and the sensor on the Unit is blocked.<br>• The batteries have lost their charge. | • Remove the obstruction.<br>• Replace the batteries. |
| The CD tray cannot be opened. | The main AC power cord is not plugged in. | Plug in the AC power plug. |
| The CD does not play. | The CD is upside down. | Put the CD in with the label side up. |
| Operations are disabled. | The built-in microprocessor has malfunctioned due to external electrical interference. | Unplug the Unit then plug it back in. |
| The cassette door cannot be opened. | During tape playing, the power cord was unplugged. | Plug in the power cord, press the ⏻/I button, and then press the ⏏ EJECT button. |



# Specifications

**Amplifier**
Output Power: 40 watts per channel, min. RMS, both channels driven into 6 ohms at 1 kHz with no more than 10% total harmonic distortion. (IEC 268-3)
27 watts per channel, min. RMS, both channels driven into 6 ohms at 1 kHz with no more than 0.9% total harmonic distortion. (DIN)
Input Sensitivity/Impedance (1 kHz)
AUX: 300 mV/50 kohms
Speaker terminals: 6 – 16 ohms

**Tuner**
FM Tuner
Tuning Range: 87.50 – 108.00 MHz
AM Tuner
Tuning Range
MW: 522 – 1,629 kHz
LW: 144 – 288 kHz

**CD Automatic Changer**
CD Capacity: 3 discs
Dynamic Range: 85 dB
Signal-To-Noise Ratio: 90 dB
Wow And Flutter: Unmeasurable

**Cassette Deck**
Frequency Response
Type I (NORMAL): 50 – 14,000 Hz
Type II (CrO₂): 50 – 14,000 Hz
Wow And Flutter: 0.15% (WRMS)

**General**
Dimensions: 265 × 295 × 361 mm (W/H/D)
(10⁷/₁₆ × 11⁵/₈ × 14¹/₄ inches)
Mass: 8 kg (17.7 lbs)

**Power Specifications**
Power Requirements: AC 230 V ∿, 50 Hz
Power Consumption: 85 watts
9 watts (in standby mode)

**Accessories**
AM (MW/LW) Loop Antenna (1)
Remote Control (1)
Batteries R6S/R6P (SUM-3)/AA (15F) (2)
FM Wire Antenna (1)

*Design and specifications are subject to change without notice.*

# -MEMO-

# Disassembly method

## <Main body>

### ■Removing the Metal Cover(see Fig.1 to 3)

1. Remove the six A screws attaching the metal cover on the back of the body.

2. Remove the two B screws attaching the metal cover on both sides of the body.

3. Remove the metal cover from the body by lifting the rear part of the cover.

ATTENTION: Do not break the front panel tab fitted to the metal cover.

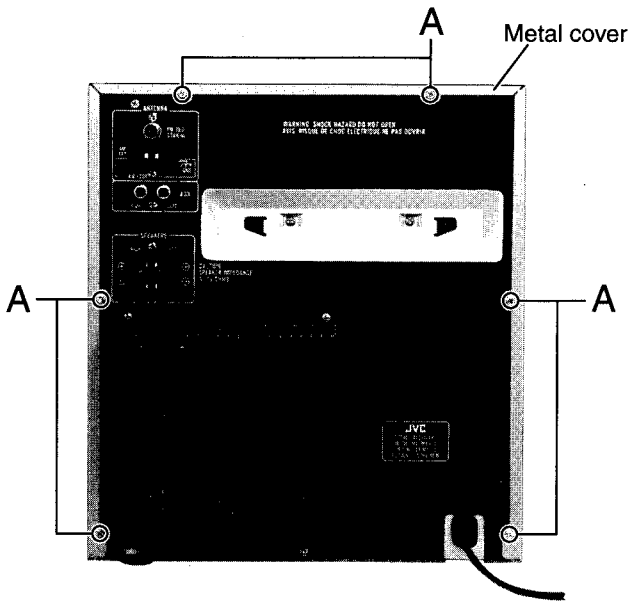



Fig.1

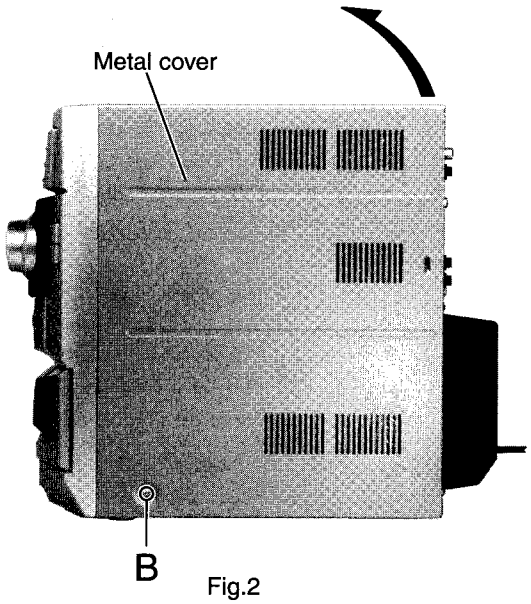



Fig.2

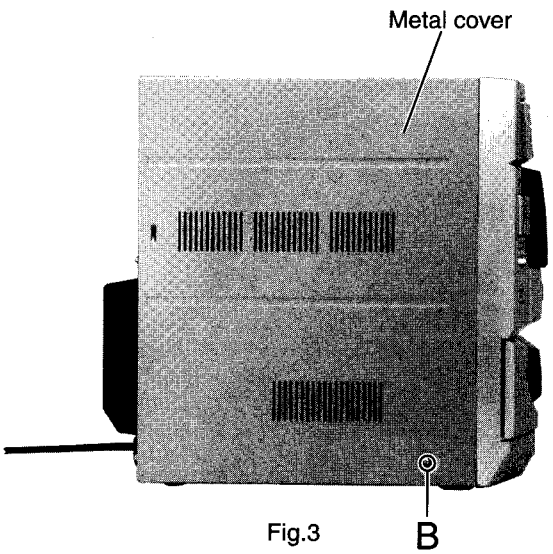



Fig.3

## ■Removing the CD Changer Mechanism Assembly(see Fig.4 to 7)

- Prior to performing the following procedure, remove the metal cover.

1. Disconnect the connector CN304, CN305 and CN303 of the card wires connecting the CD changer mechanism board and the main board.

2. Remove the two C screws on the upper side of the CD changer assembly and the two D screws on the back of the rear panel.

3. Remove the plastic rivet attaching the main board.

4. Cut the wire cramp fixing the flat wire under the CD changer mechanism assembly.

5 Pull the rear panel and the front panel assembly to the outside, then remove the CD changer mechanism assembly by lifting the rear part of the assembly.

ATTENTION: To prevent damage to the CD fitting, be sure to pull the rear panel and the front panel assembly enough to remove the CD changer mechanism.

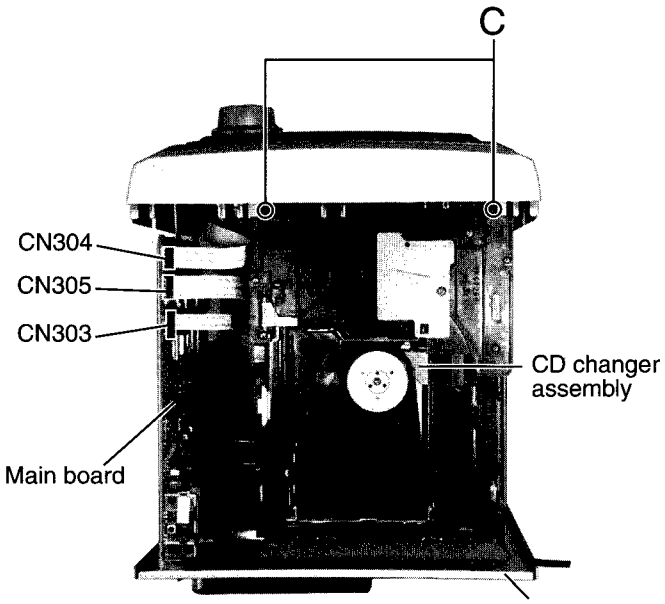



Fig.4

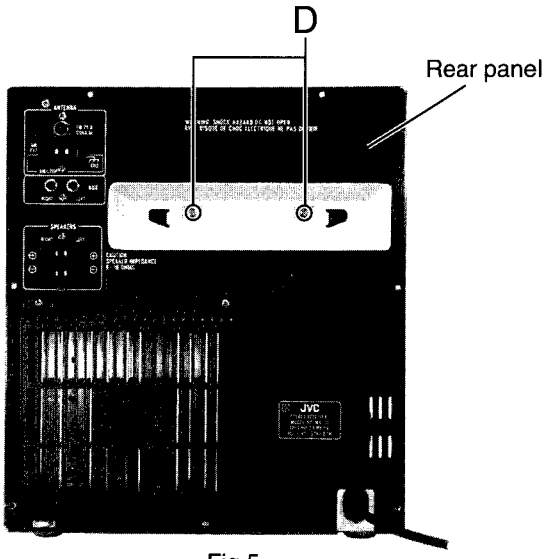



Fig.5

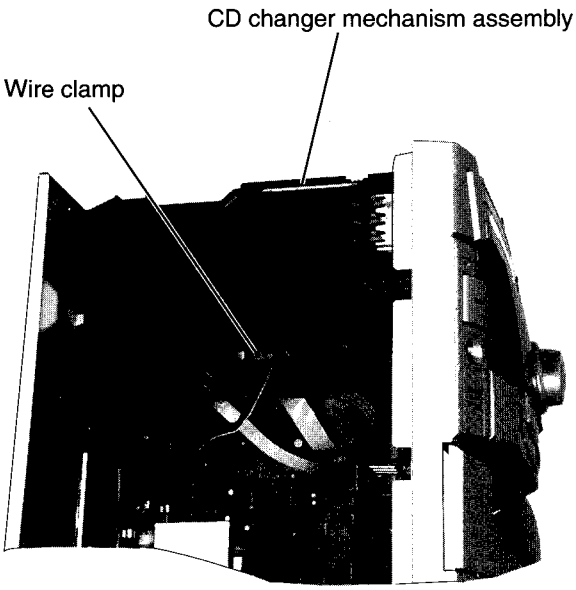



Fig.7

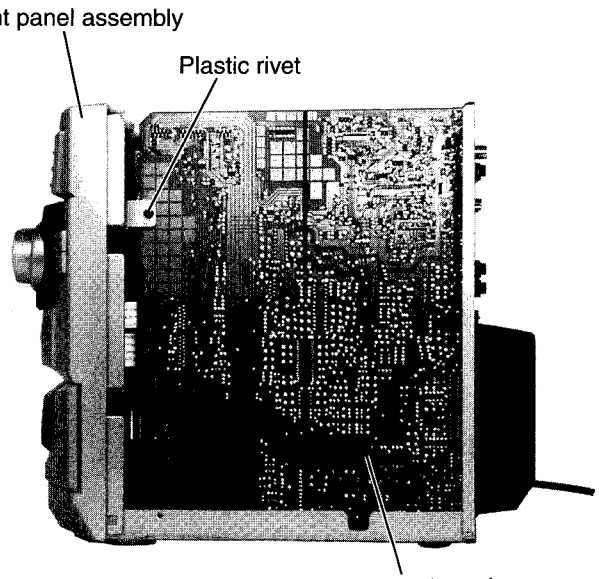



Fig.6

## < Front Assembly>

### ■Removing the Front Panel Assembly (see Fig.8 to 10)

- Prior to performing the following procedure, remove the metal cover and CD changer mechanism assembly.

1. Disconnect the card wires from connector CN302, CN306A and CN306B and the flat wire from CN307 on the main board.

2. Remove the two E screws attaching the front panel assembly on the bottom of the body.

3. Release the two joints a and b on the lower right and left sides of the body using a screwdriver, and remove the front panel assembly tow ardthe front.

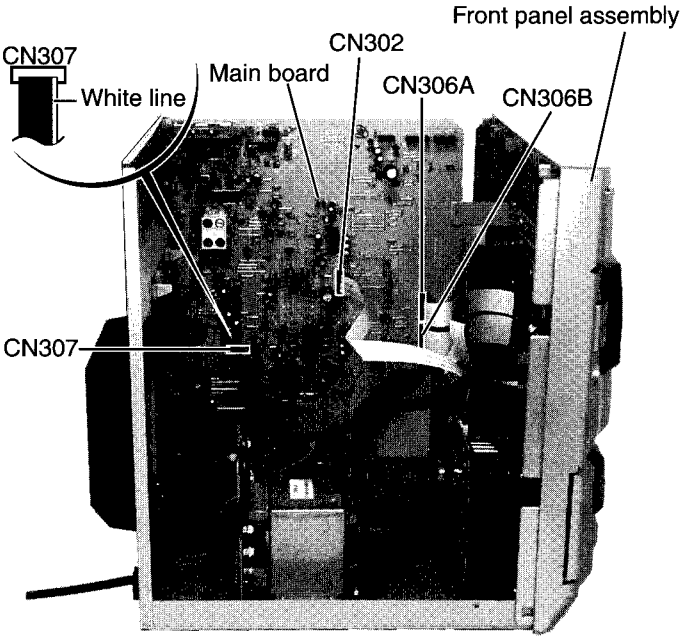



Fig.8

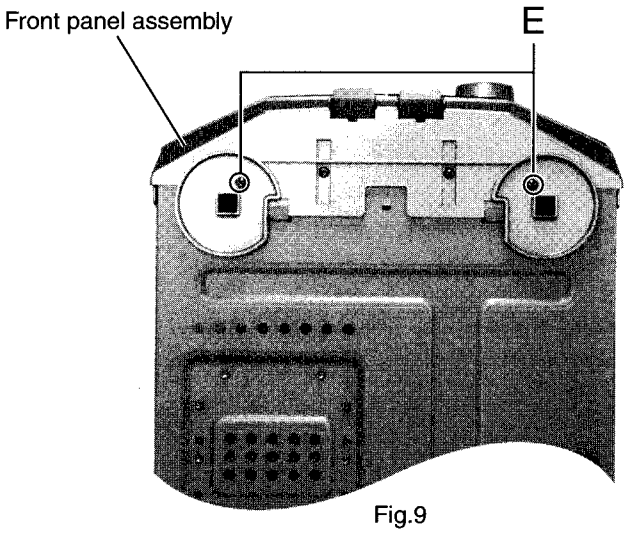



Fig.9

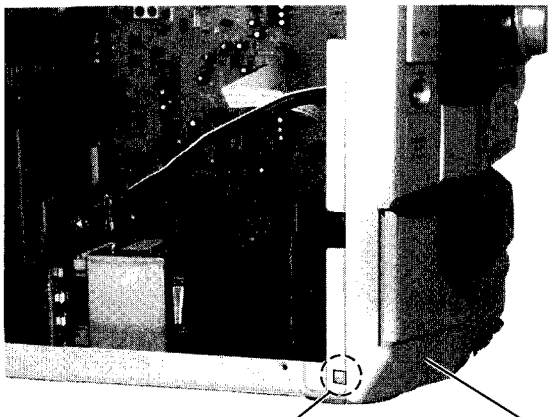



Fig.10a

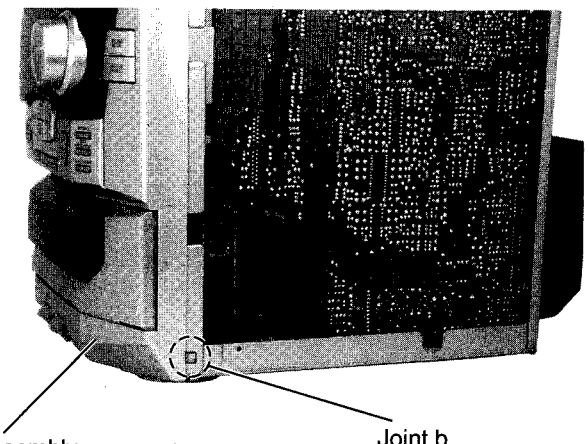



Fig.10b

## ■ Removing the Cassette Mechanism Assembly(see Fig.11)

1. Disconnect the card wire from connector CN306 on the head amplifier & mechanism control board of the cassette mechanism assembly.

2. Remove the four F screws and four H screws attaching the cassette mechanism assembly.

## ■ Removing Each Board of the Front Panel Assembly(see Fig.11 to 14)

1. Remove the four G screws attaching the stay bracket.

2. In case that the cassette mechanism assembly is attached, disconnect the card wire from connector CN306 on the head amplifier & mechanism control board of the cassette mechanism assembly.

3. Pull out the volume knob toward the front and remove the nut.

4. Remove the nine R screws attaching the LCD board.

5. Remove the seven screws I and S attaching the function SW board.

6. Remove the screw J attaching the phones board.

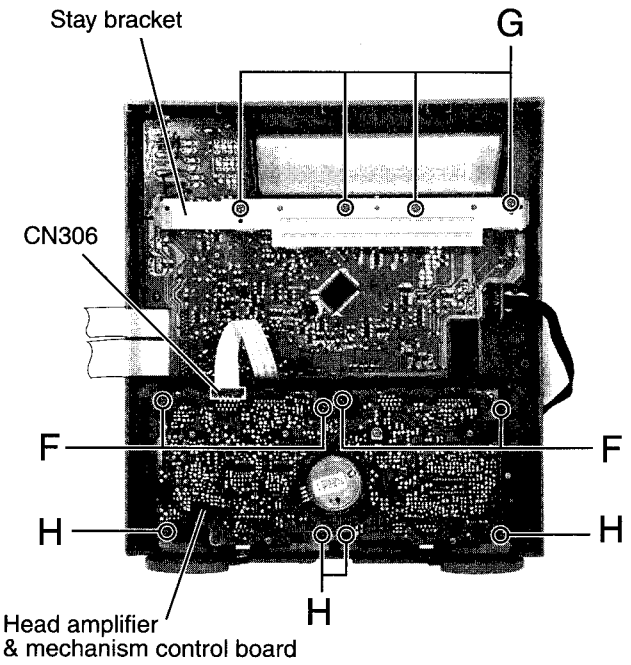



Fig.11

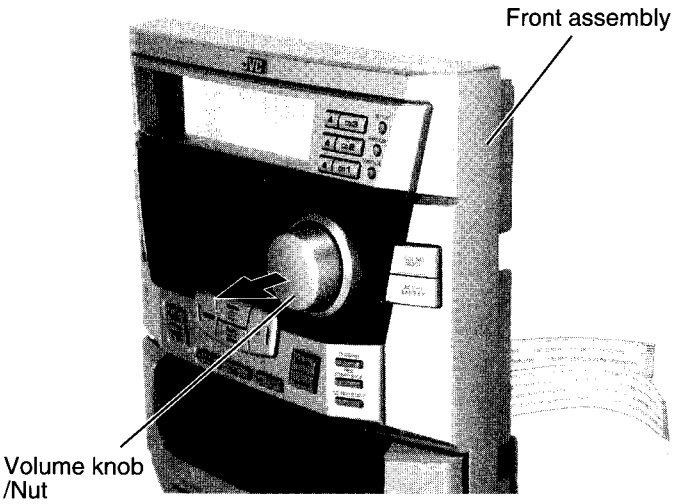



Fig.12

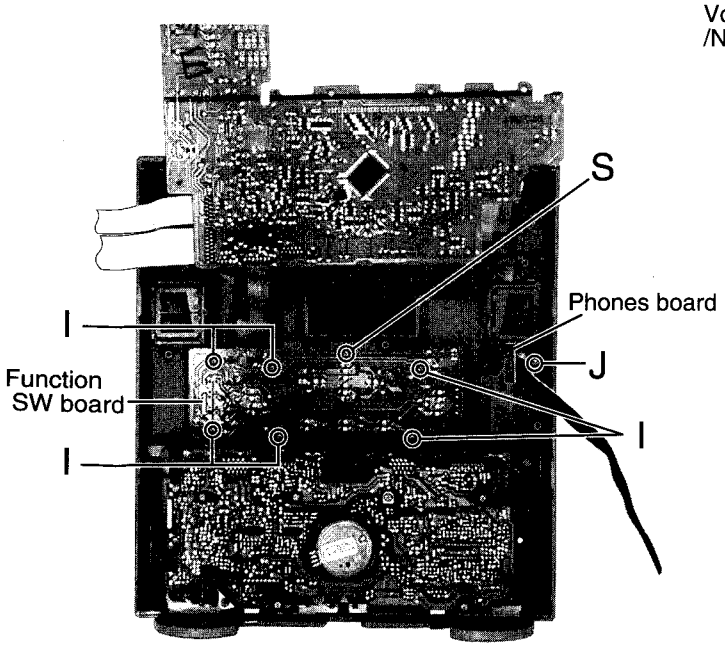



Fig.14

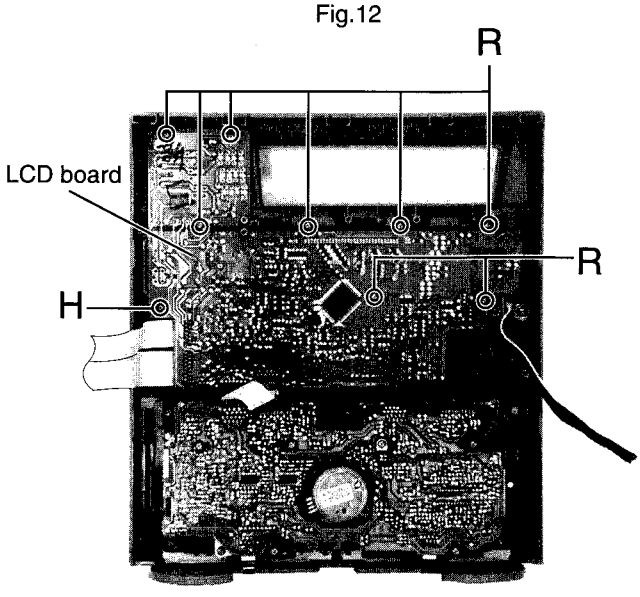



Fig.13

## <Rear Panel Assembly>

- Prior to performing the following procedure, remove the metal cover and CD changer mechanism assembly.
- The following procedure can be performed even if the front panel assembly is attached.

## ■ Removing the Rear Cover(see Fig.15)

1. Remove the two K screws attaching the rear cover on the back of the body.

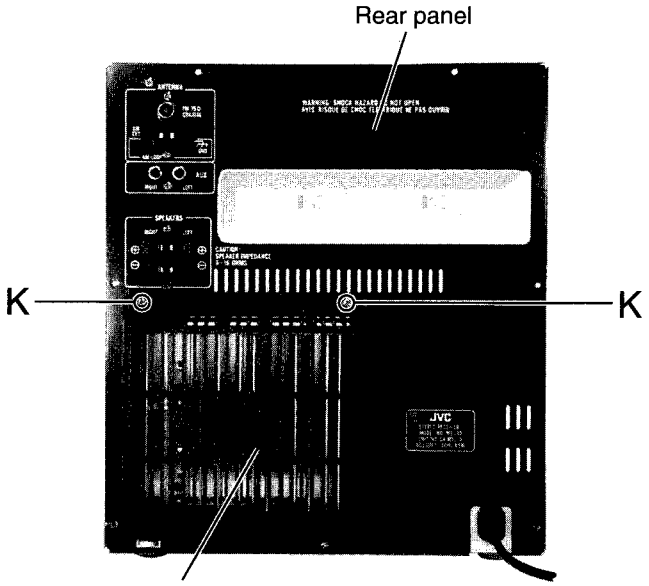



Fig.15

## ■ Removing the Rear Panel (see Fig.15 to 17)

- Prior to performing the following procedure, remove the rear cover.

1. Remove the four L screws attaching the heat sink and the rear panel on the back of the body.
2. Remove the five M screws attaching the main board and the rear panel.
3. Remove the screw N and one T screw attaching the main body and the rear panel.
4. The two joints d and e on the lower part of the rear panel using a screwdriver, and remove the rear panel backward.

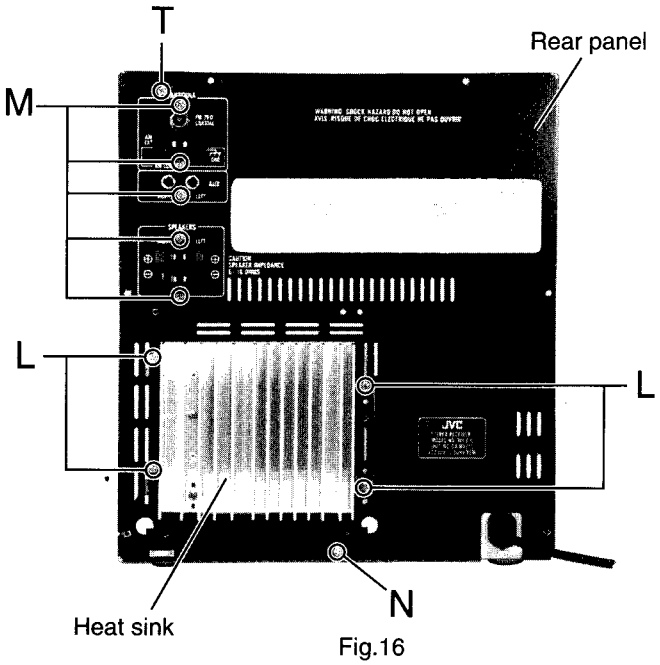



Fig.16

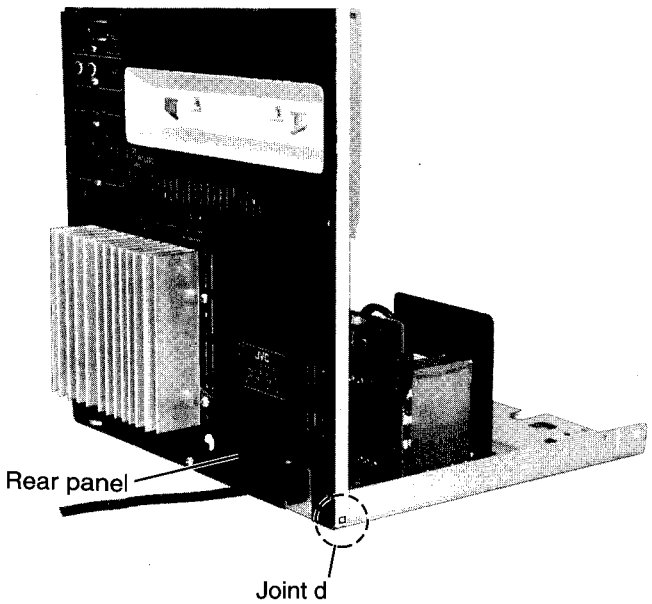



Fig.17a

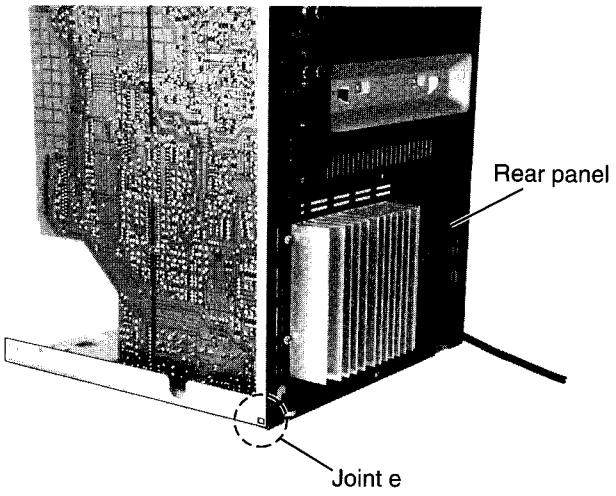



Fig.17b

## ■Removing the Main Board

**(see Fig.18 to 20)**

- Prior to performing the following procedure, remove the metal cover, the CD changer mechanism assembly and the rear panel.

1. Disconnect the card wires from connector CN302, CN306A and CN306B on the main board and the flat wires from connector CN307, CN901A and CN901B.

2. Remove the plastic rivet attaching the main board.

3. Remove the screw O attaching the main board on the right side of the body.

4. When removing the heat sink from the main board, remove the two P screws attaching the heat sink and detach the bracket together with the heat sink.

ATTENTION: When conducting electricity to the main board, make sure that the heat sink is attached to the main board.

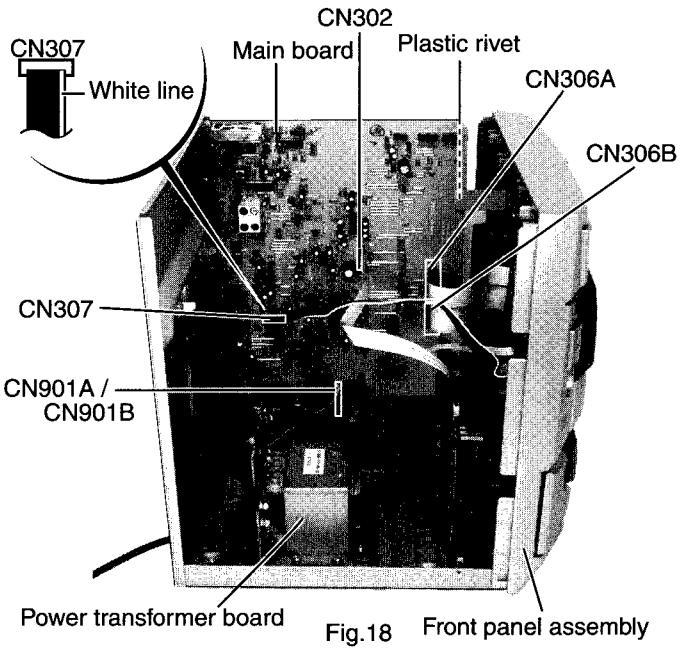



Fig.18

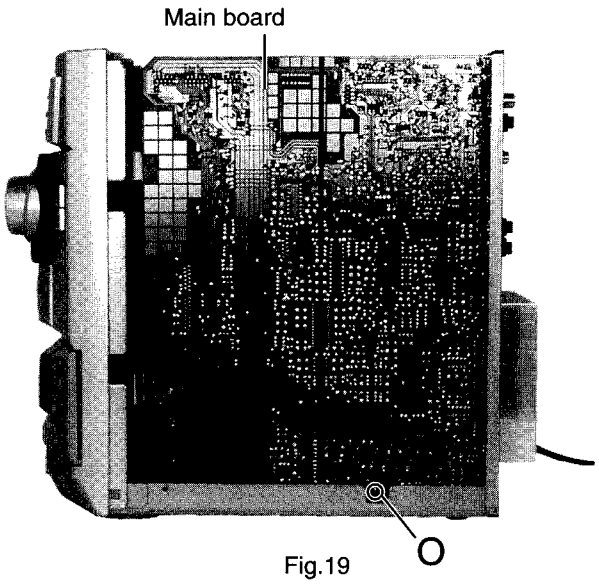



Fig.19

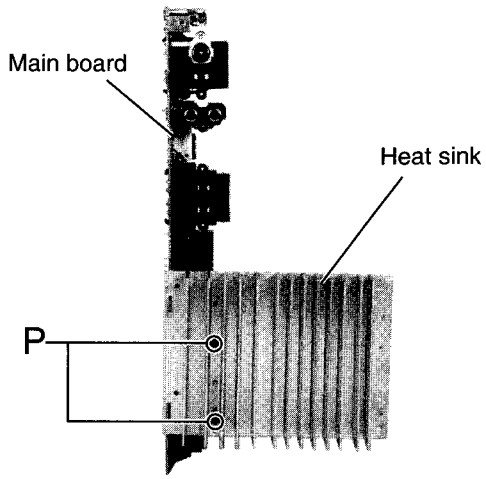



Fig.20

## ■ Removing Only the Main Board without Removing Each Assembly (see Fig.18 to 21)

- Prior to performing the following procedure, remove the metal cover.

1. Disconnect the card wires from connector CN303, CN304 and CN305 on the main board (The card wires are extending from the CD changer mechanism assembly).

2. Disconnect the card wires from connector CN306A and CN306B on the main board (The card wires are extending from the LCD board of the front assembly).

3. Disconnect the flat wire from connector CN307 on the main board (The flat wire is extending from the phone board of the front assembly).

4. Disconnect the card wire from connector CN302 on the main board (The card wire is extending from the cassette mechanism assembly of the front assembly).

5. Disconnect the flat wire from connector CN901A and CN901B on the main board (The flat wire is extending from the power transformer board).

6. Detach the rear cover from the rear panel and remove the screws attaching the main board and the heat sink(Refer to Fig.15 to 17).

7. Remove the screw O and the plastic rivet attaching the main board on the right side of the body.

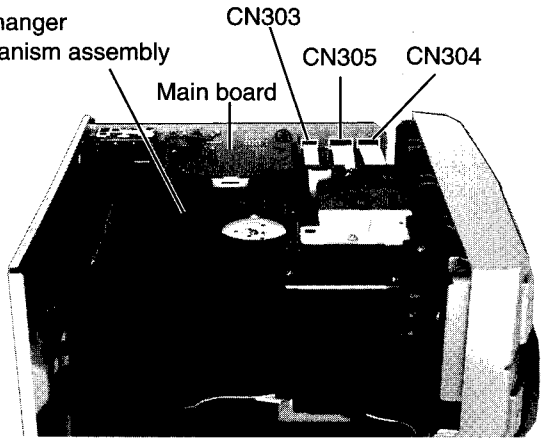



Fig.21

## ■Removing the Power Transformer Board (see Fig.22)

- Prior to performing the following procedure, remove the metal cover, the CD changer mechanism assembly and the rear panel.

1. Disconnect the flat wire from connector CN901A and CN901B on the main board and release them from the stopper.
2. Remove the four Q screws attaching the power transformer assembly.
3. Push the cord stopper upward to remove it.

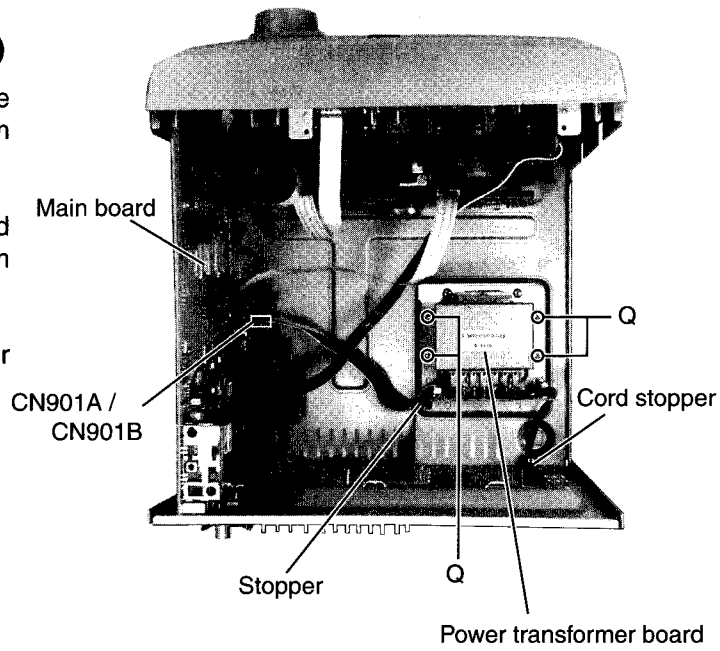



Fig.22

# < Cassette Mechanism Section >

## ■Removing the Playback,Recording and Eraser Heads (See Fig.1~3)

1. While shifting the trigger arms seen on the right side of the head mount in the arrow direction,turn the flywheel R in counterclockwise direction until the head mount has gone out with a click (See Fig. 1).
2. When the flywheel R is rotated in counterclockwise direction, the playback head will be turned in counterclockwise direction from the position in Fig.2 to that in Fig.3.
3. At this position, disconnect the flexible P.C.board (outgoing from the playback head) from the connector CN301 on the head amp. and mechanism control P.C. board.
4. After dismounting the FPC holder,remove the flexible P.C.board.
5. Remove the flexible P.C.board from the chassis base.
6. Remove the spring "a" from behind the playback head.
7. Loosen the reversing azimuth screw retaining the playback head.
8. Take out the playback head from the front of the head mount.
9. The recording and eraser heads should also be removed similarly according to Steps 1~8 above.

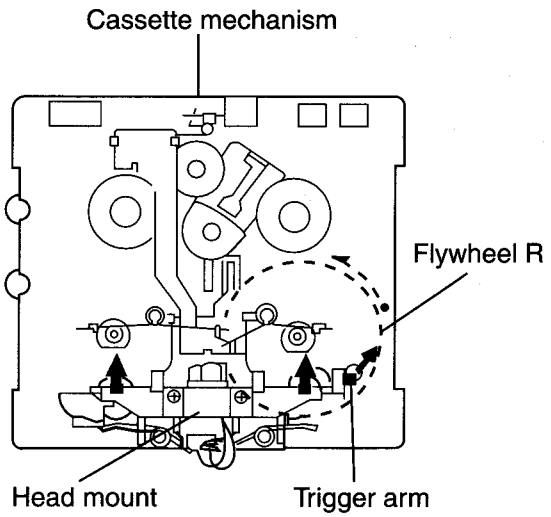



Fig.1 (Mechanism A side)

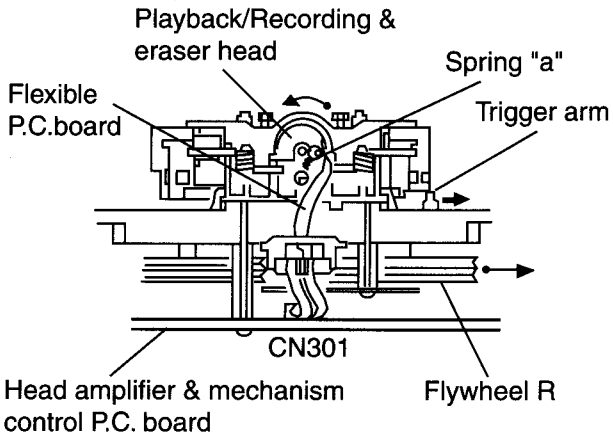



Fig.2 (Mechanism A side)

## ●Reassembling the Playback, Recording and Eraser Heads (See Fig.2,3)

1. Reassemble the playback head from the front of the head mount to the position as shown in Fig.3.
2. Fix the reversing azimuth screw.
3. Set the spring a from behind the playback head.
4. Attach the flexible P.C.board to the chassis base, and fix it with the FPC holder as shown in Fig.3.
5. The recording and eraser heads should also be reassembled similarly according to Steps 1~4 above.

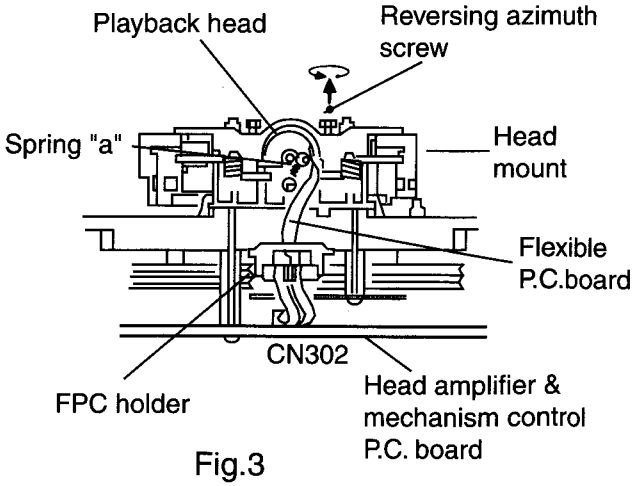



Fig.3 (Mechanism B side)

## ■ Removing the head Amp.and Mechanism Control P.C.Board (See Fig. 4)

1. Remove the cassette mechanism assembly.
2. After turning over the cassette mechanism assembly,remove the five screws "A" retaining the head amp. and mechanism control P.C. board
3. Disconnect the connectors CN303 and CN304 on the P.C.Board and the connectors CN1 on both the right and left side reel pulse P.C.Boards.
4. When necessary, remove the 4pin parallel wire soldered to the main motor

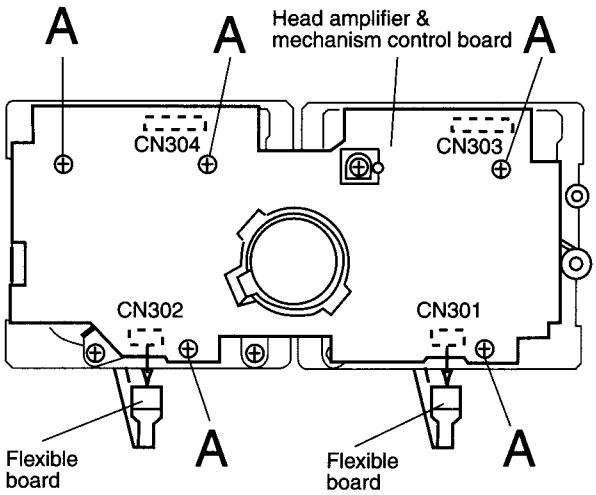



Fig.4

## ■ Removing the Capstan Motor Assembly

1. Remove the six screws "B" retaining capstan motor assembly (See Fig. 5).
2. While raising the capstan motor, remove the capstan belts A and B respectively from the motor pulley (See Fig. 6).

Caution 1: Be sure to handle the capstan belts so carefully that these belts will not be stained by grease and other foreign matter. Moreover, these belts should be hand while referring to the capstan belt hanging method.

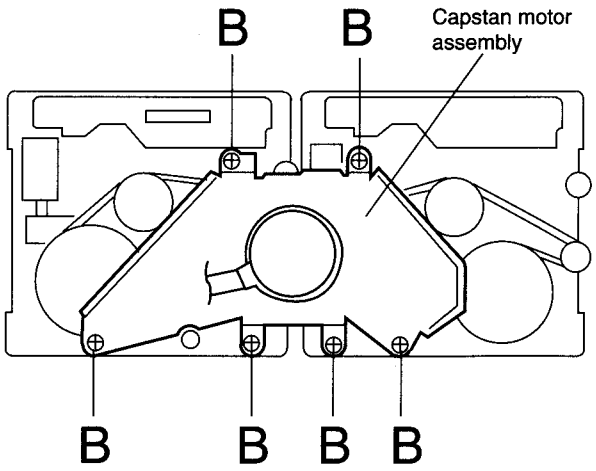



Fig.5

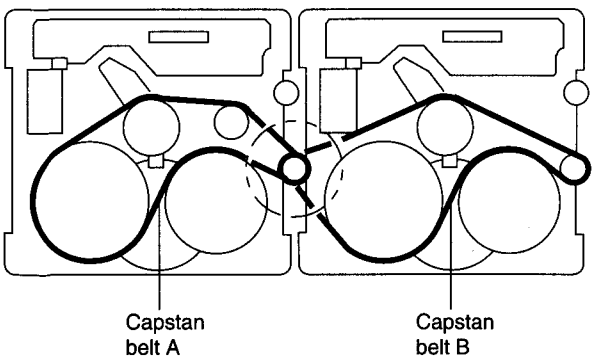



Fig.7

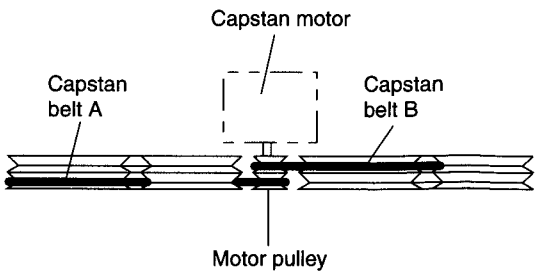



Fig.6

## ■Removing the Capstan Motor (See Fig. 8)

From the joint bracket, remove the two screws "C" retaining the capstan motor.

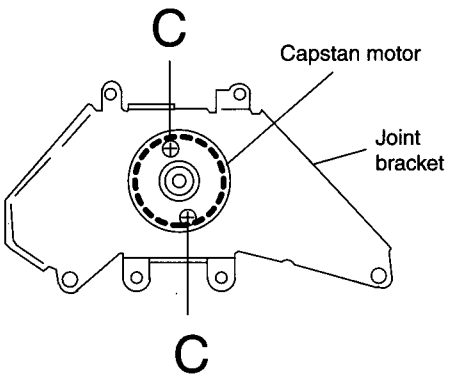



Fig.8

## ■Removing the Flywheel (See Fig. 9,10)

1. Remove the head amp. and mechanism control P.C.Board.
2. Remove the capstan motor assembly.
3. After turning over the cassette mechanism, remove the slit washers "a" and "b" fixing the capstan shafts R and L, and pull out the flywheels R and L respectively from behind the cassette mechanism.

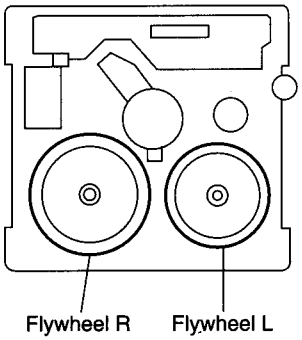



Fig.10

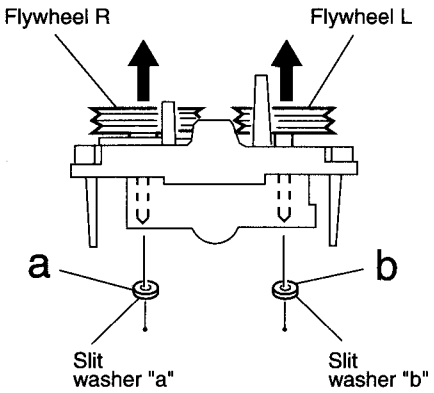



Fig.9

## ■Removing the Reel Pulse P.C.Board and Solenoid (See Fig. 11)

1. Remove the five pawls (c,d,e,f,g) retaining the reel pulse P.C.Board.
2. From the surface of the reel pulse P.C.Board parts, remove the two pawls "h" and "i" retaining the solenoid.

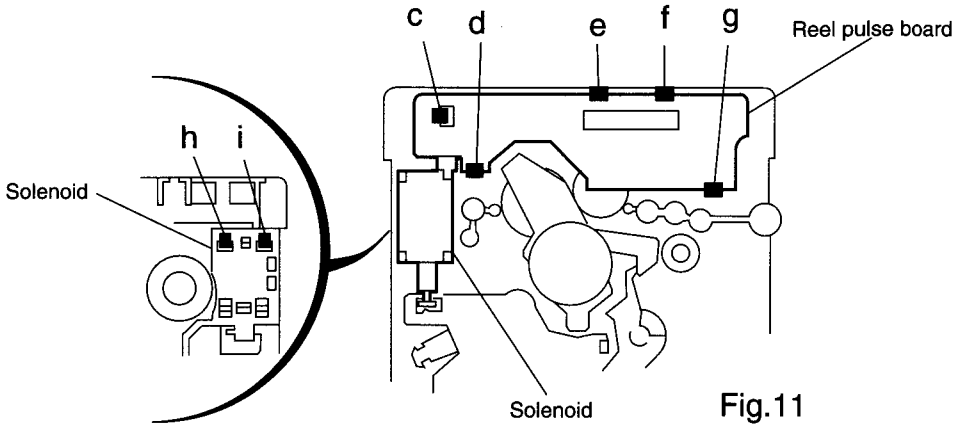



Fig.11

≪CD Traverse Mechanism Type:C3CN Section≫

## ■Removing the CD Servo control board (See Fig.1)

1. Remove the Metal cover.
2. Remove the CD Traverse mechanism assembly.
3. From bottom side the CD Traverse mechanism assembly, remove the one screw 1 retaining the CD Servo control board.
4. From the connectors CN601, CN603, CN604 on the CD Servo control board, diconnect the card wire, from the connector CN602, disconnect the six pin connector wire.
5. Disengage the two engagements "A" , remove the CD Servo control board.

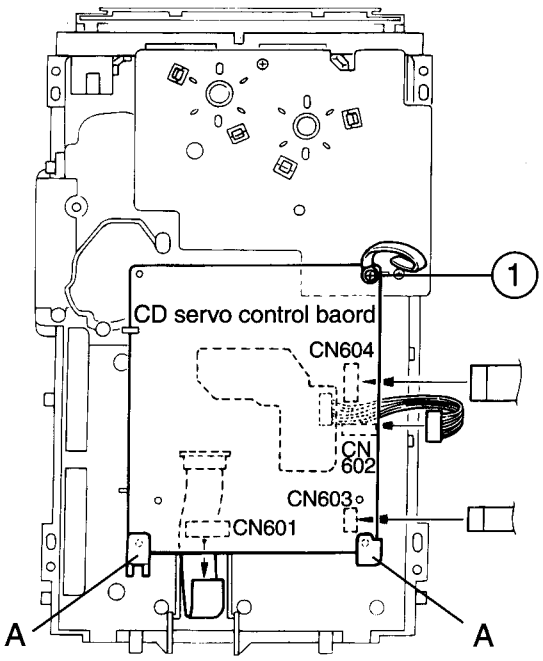



Fig.1

## ■Removing the CD tray assembly (See Fig.2~4)

1. Remove the front panel assembly.
2. Remove the CD Traverse mechanism assembly.
3. Remove the CD Servo control board.
4. Remove the screw 2 retaining the Disc stopper (See Fig.3).
5. Remove the three screws 3 retaining the T.bracket (See Fig.3).
6. From the clamper base section "C" , remove both of the edges fixing the rod(See Fig.2 and 3).
7. Remove the screw 4 retaining the clamper assembly (See Fig.3).
8. From the left side face of the chassis assembly, remove the one screw 5 retaining both of the return spring and lock lever(See Fig. 4).
9. By removing the pawl at the section "D" fixing the return spring, dismount the return spring(See Fig.4).
10. Remove the three lock levers(See Fig.4).

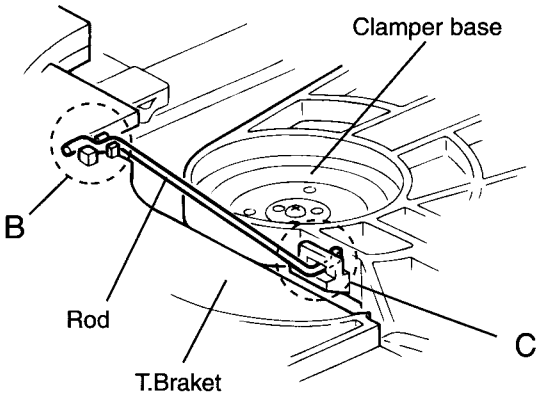



Fig.2

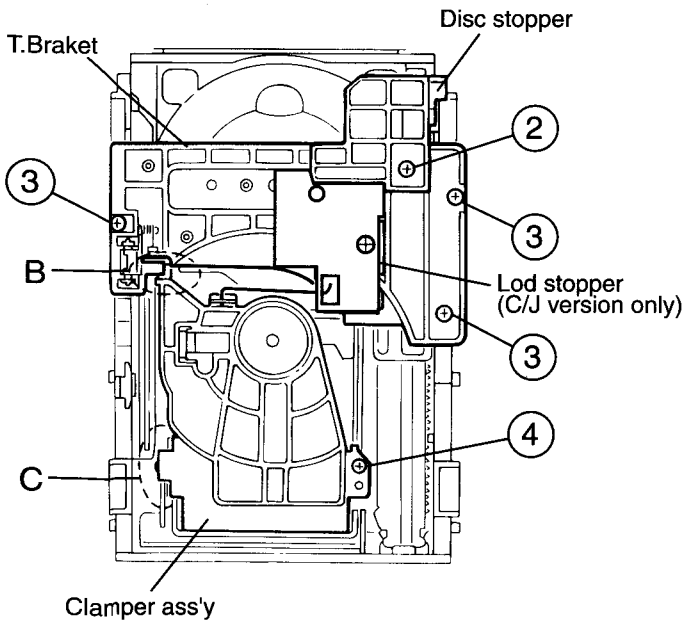



Fig.3

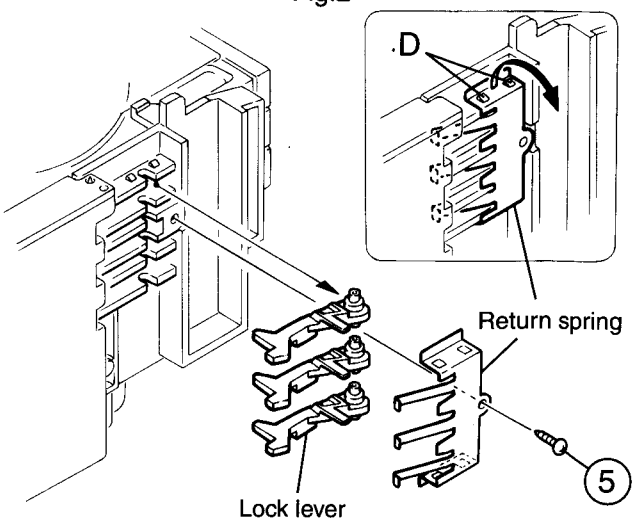



Fig.4

11. Check whether the lifter unit stopper has been caught into the hole at the section "E" of CD tray assembly as shown in Fig.5.
12. Make sure that the driver unit elevator is positioned as shown in Fig.6 from to the second or fifth hole on the left side face of the CD Traverse mechanism assembly.

**[Caution]** In case the driver unit elevator is not at above position, set the elevator to the position as shown in Fig.7 by manually turning the pulley gear as shown in Fig.8.

13. Manually turn the motor pulley in the clockwise direction until the lifter unit stopper is lowered from the section "E" of CD tray assembly(See Fig.8).
14. Pull out all of the three stages of CD tray assembly in the arrow direction "F" until these stages stop (See Fig.6).
15. At the position where the CD tray assembly has stoppend, pull out the CD tray assembly while pressing the two pawls "G and G" on the back side of CD tray assembly(See Fig.9). In this case, it is easy to pull out the assembly when it is pulled out first from the stage CD tray assembly.

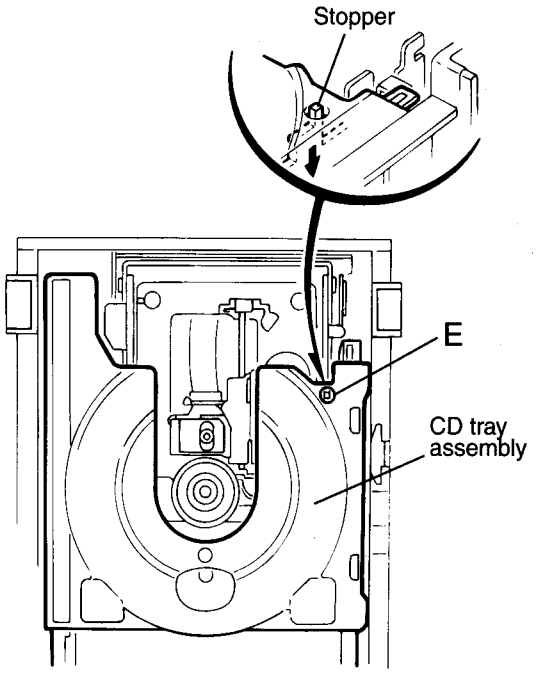



Fig.5

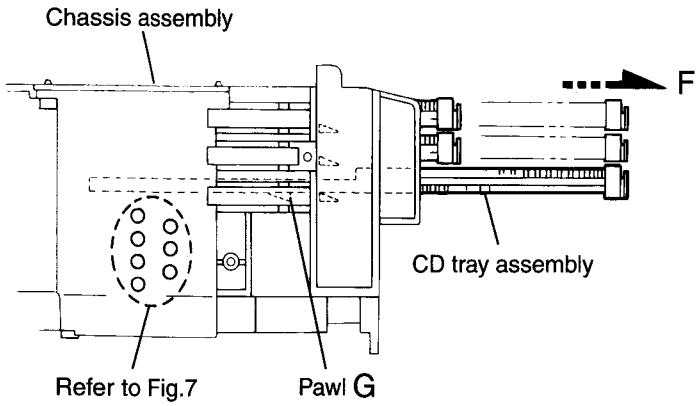



Fig.6

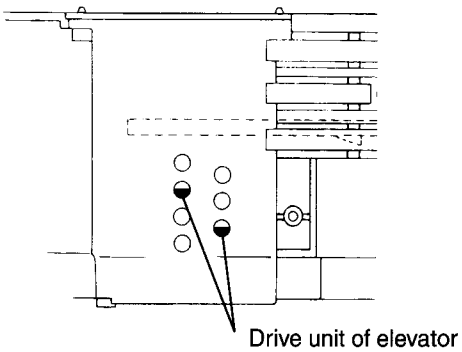



Fig.7

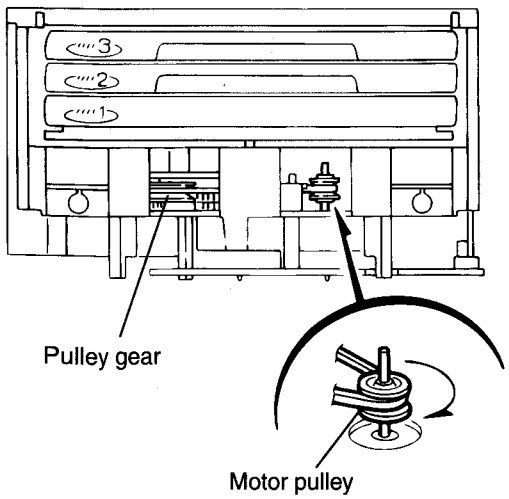



Fig.8

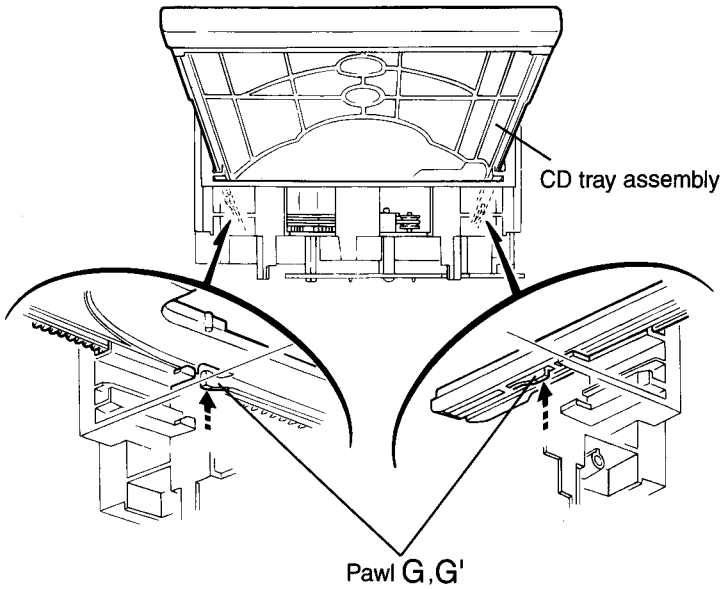



Fig.9

## ■Removing the CD mechanism assembly(See Fig.10)

1. While turning the cams R1 and R2 assembly in the arrow direction "H" , align the shaft "I" of the CD mechanism assembly to the position shown in Fig.10.
2. Remove the four screw 6 retaining the CD mechanism assembly.

## ■Removing the CD mechanism (See Fig.11 and 12 )

1. For dismounting only the CD machanism without removing the CD mechanism assembly, align the shaft "J" of the CD mechanism assembly to the position shown Fig.11 while turning the cam R1 and R2 assembly in the arrow direction "K" .
2. By raising the CD mechanism assembly in the arrow direction "L" , remove the assembly from the lifter unit (See Fig.12).

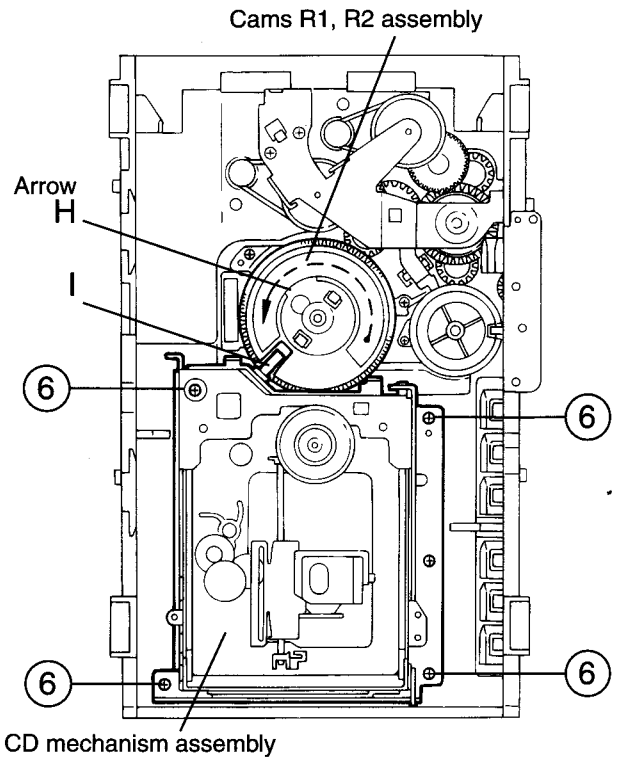



Fig.10

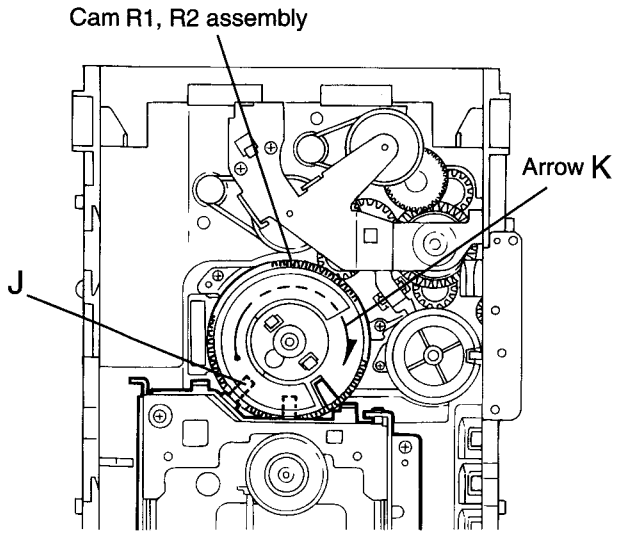



Fig.11

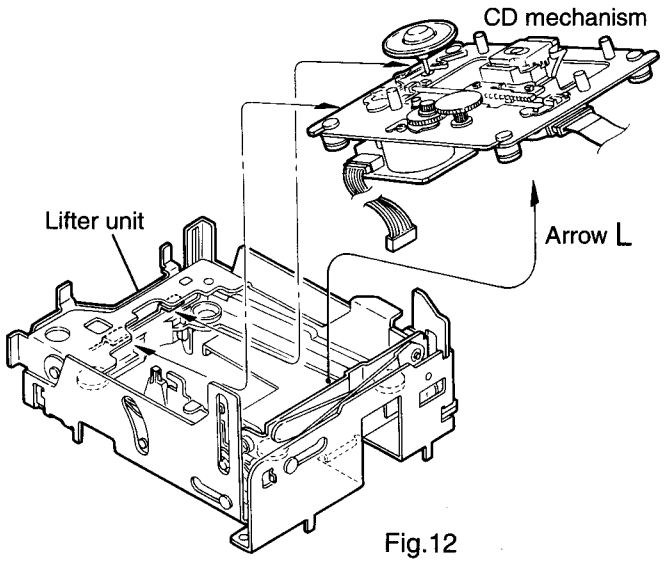



Fig.12

## ■Removing the CD pick unit (See Fig.13 )

1. Move the cam gear in the arrow direction a . Then, the CD pickup unit will be moved in the arrow direction b .
2. According to the above step, shift the CD pickup unit to the center positior.
3. While pressing the stopper retaining the shaft in the arrow direction c , pull out the shaft in the arrow direction d .
4. After dismounting the shaft from the CD pickup unit, remove the CD pickup unit

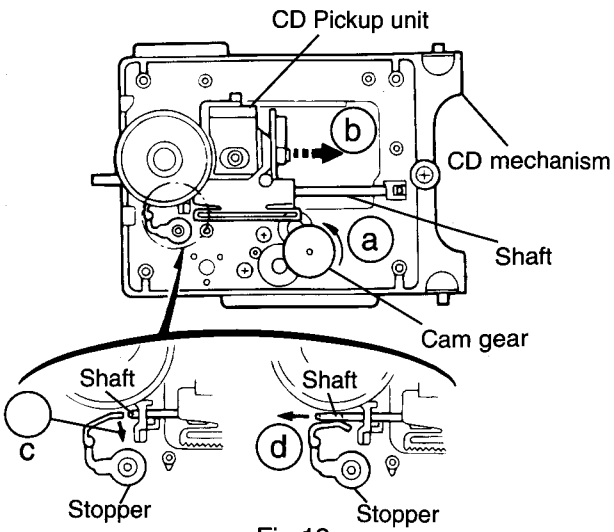



Fig.13

## ■Removing the actuator motor boad (See Fig.14, 15)

1. Absord the four soldered positions "M" of the right and left motors with a soldering absorber(See Fig.14).
2. Remove the two screws 7 retaining the actuator motor board(See Fig.14).
3. Remove the two screws 8 retaining the tray select switch board(See Fig.15).

## ■Removing the can unit (See Fig.15 ~18 )

1. Remove the CD mechanism assembly.
2. While turning the cam gear L, align the pawl "N" position of the drive unit to the notch position(Fig.15) on the cam gear L.
3. Pull out the drive unit and cylinder gear(See Fig.17).
4. While turning the cam gear L, align the pawl "O" position of the select lever to the notch position(Fig.18) on the cam gear L.
5. Remove the four screws 9 retaining the cam unit(cam gear L and cams R1/R2 assembly)(See Fig.18).

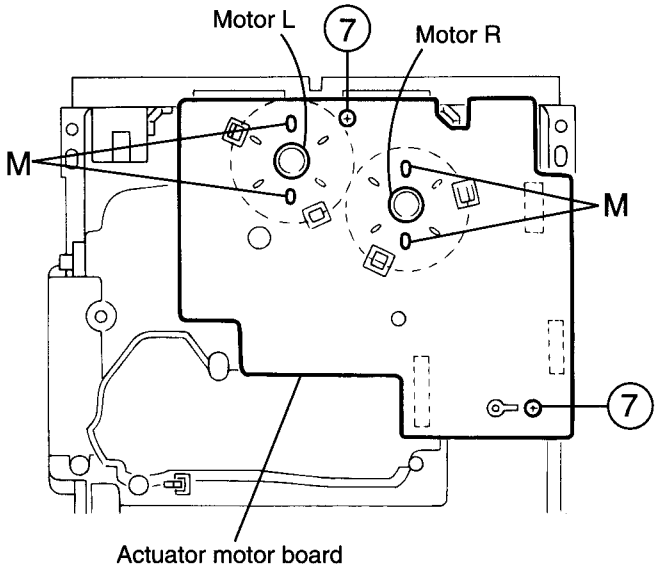



Fig.14

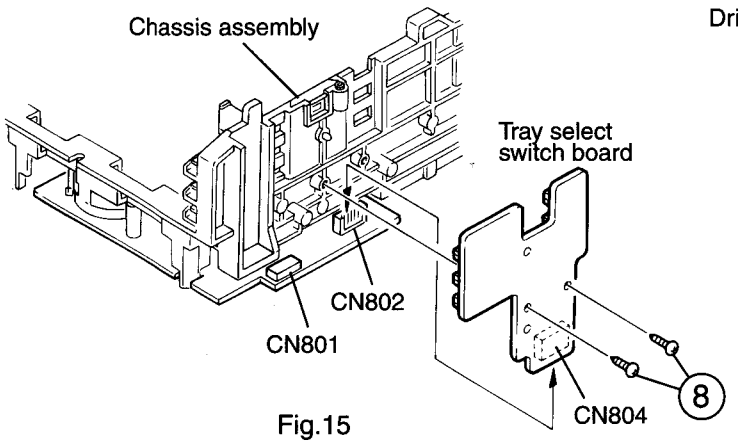



Fig.15

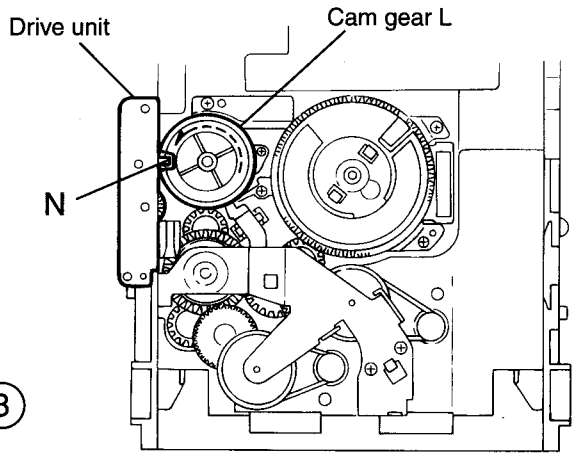



Fig.16

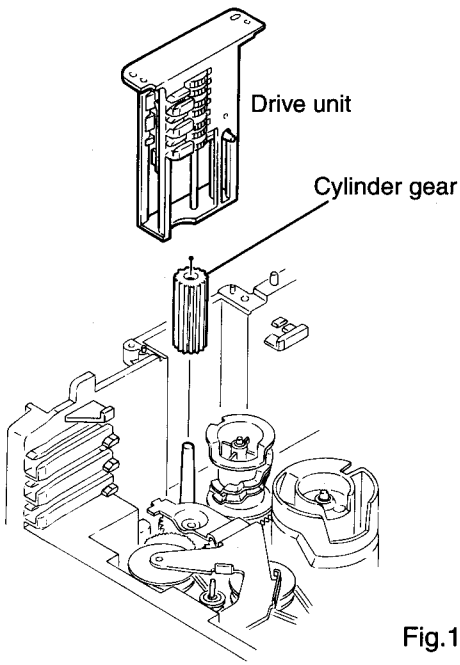



Fig.17

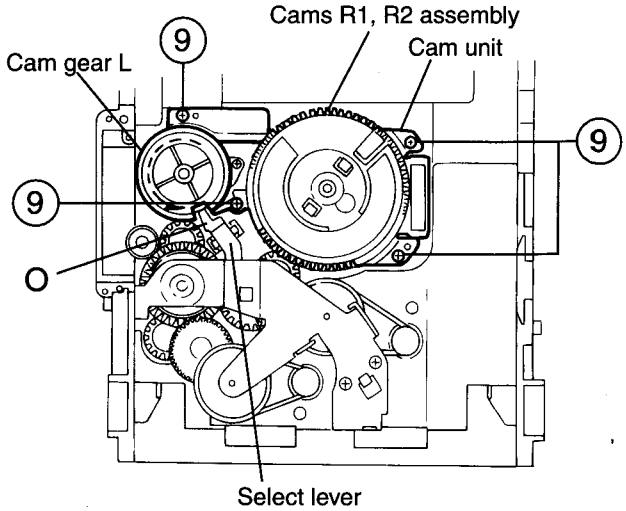



Fig.18

## ■Removing the actuator motor and belt (See Fig.19~22)

1. Remove the two screws 10 retaining the gear bracket (See Fig.19).
2. While pressing the pawl "P" fixing the gear bracket in the arrow direction, remove the gear bracket (See Fig.19).
3. From the notch "Q section" on the chassis assembly fixing the edge of gear bracket, remove and take out the gear bracket(See Fig. 20).
4. Remove the belts respectively from the right and left actuator motor pulleys and pulley gears(See Fig. 19).
5. After turning over the chassis assembly, remove the actuator motor while spreading the four pawls "R" fixing the right and left actuator motors in the arrow direction(See Fig. 21).

**[Note]** When the chassis assembly is turned over under the conditions wherein the gear bracket and belt have been removed, then the pulley gear as well as the gear, etc. constituting the gear unit can possibly be separated to pieces. In such a case, assemble these parts by referring to the assembly and configuration diagram in Fig. 22.

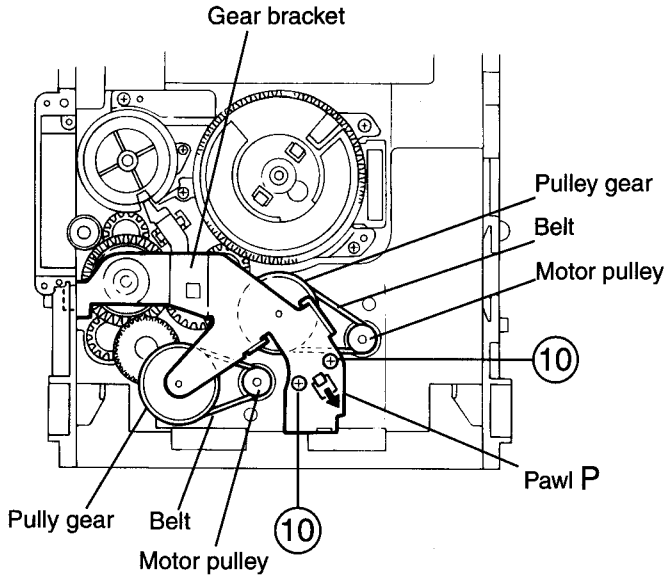



Fig.19

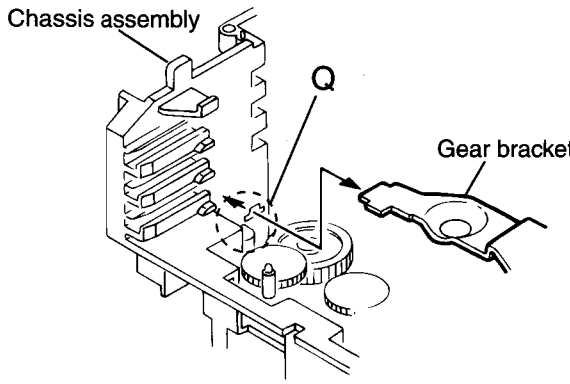



Fig.20

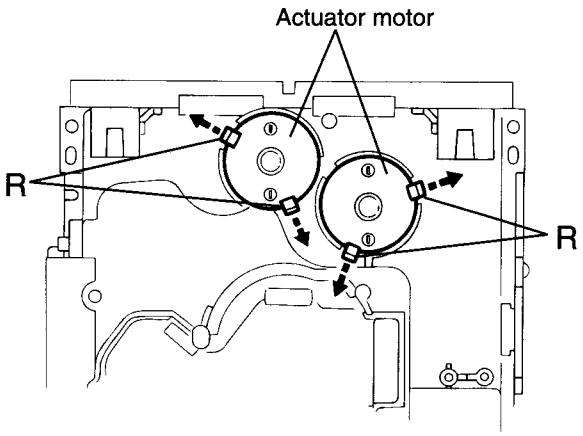



Fig.21

### Assembly and Configuration Diagram

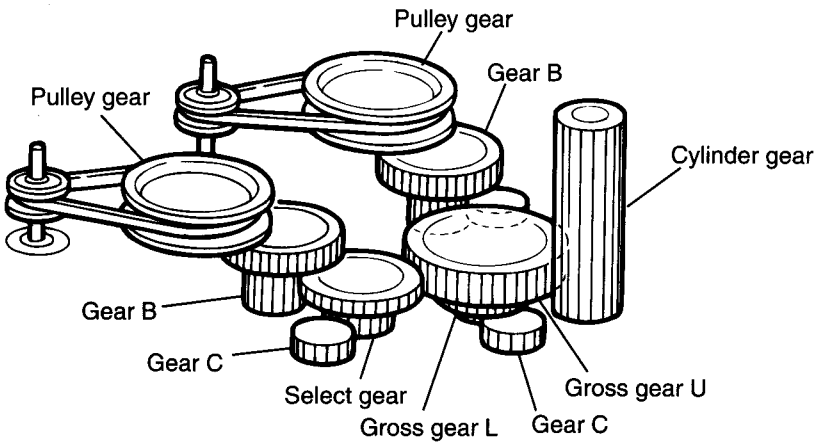



Fig.22

## ■Removing the cams R1/R2 assembly and cam gear L(See Fig.23)

1. Remove the slit washer fixing the cams R1 and R2 assembly.
2. By removing the two pawls "S" fixing the cam R1, separate R2 from R1.
3. Remove the slit washer fixing the cam gear L.
4. Pull out the cam gear L from the C.G. base assembly.

## ■Removing the C.G. base assembly (See Fig.23 and 24)

Remove the three screws 11 retaining the C.G. base assembly.

**[Caution]** To retassemble the cylinder gear, etc.with the cam unit (cam gear and cans R1/R2 assembly), gear unit and drive unit, align the position of the pawl "N" on the drive unit to that o f the notch on the cam gear L. Then, make sure that the gear unit is engaged by turning the cam gear L (See Fig. 24).

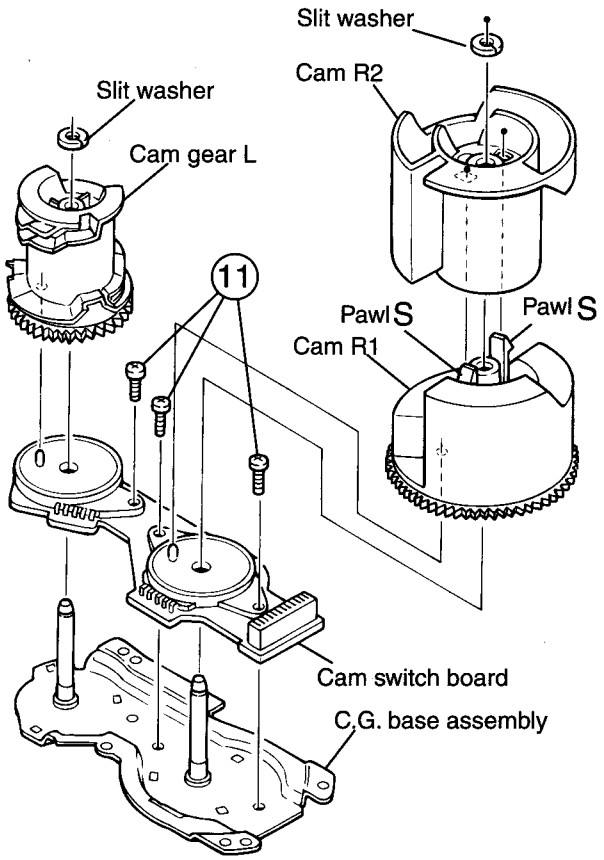



Fig.23

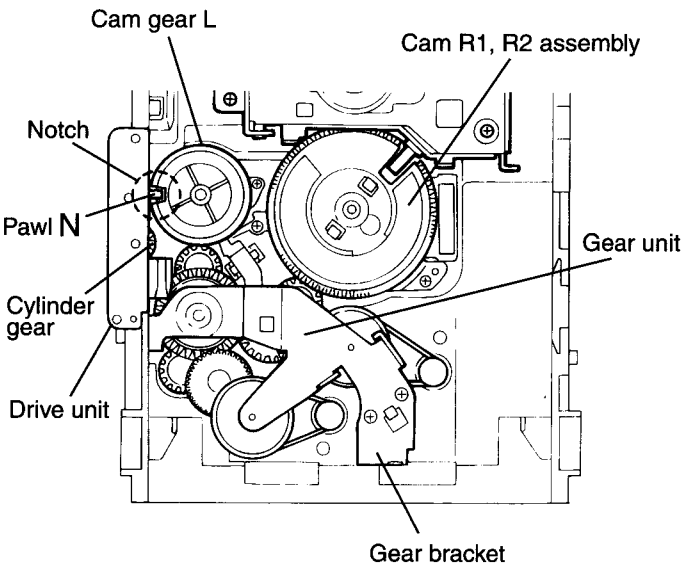



Fig.24

# Adjusting method

## ■Measuring devices necessary for adjustment

1. Low-frequency oscillator
   It must have the ability to output 600Ω from 0 dBs at an oscillation frequency of 20 Hz—50 Hz.

2.Attenuator impedance: 600Ω

3.Electronic voltmeter

4.Distortion meter

5.Frequency counter

6.Wow and flutter meter

7.Test tapes
   VT-712: tape speed and rotational distortion (3 kHz)
   VT-724: standard level (1 kHz)
   VT-703: head angle adjustment (10 kHz),
   VT-739: reproduction of frequency characteristics (1 kHz, 63 Hz, 10 kHz)

8.Blank tape
   Type I : AC-225 (TDK-AD)
   Type II : AC-514 (TDK-SA)

9.Torque gauge: Tension gauge for playback, fast-forward and rewind.
   FWD (TW211A), REW (TW212A) and FF/REW (TW2231A)

## ■Specifications for measurement

Power supply voltage ..... AC 230 V (50 Hz)
Standard output ..... Speaker: 0.775 V/6Ω
Headphone:0.245V/32
Standard frequency and input level
..... 1 kHz: AUX: -8 dBs
Input level for reproduction of recording characteristics
..... AUX: 300mV 50kohme
Measuring output terminal ..... Speaker: CN633
Load resistance ..... 6Ω

## ■Radio input signal

AM frequency ..... 400 Hz
Degree of modulation in AM band ..... 30%
FM frequency ..... 400 Hz
Frequency deviation in FM band ..... 22.5 kHz

## ■Tuner section

Voltage input to the tuner ..... +B: DC 5.7 V
VT: DC 12 V
Standard measuring output ..... 26.1 mV (0.28 V) /3Ω

Input locations ..... AM: standard loop antenna
FM: TP1 (hot) and TP2 (GND)

## ■Standard settings for measuring volume

Sound ..... OFF
Effective hyper bass ..... OFF
Volume adjustment ..... VOL. 23

## Precautions for measuring

1.Input 30 pF and 33 kΩ to the IF sweeper output and 0.082 μF and 100 kΩ to the sweeper input, respectively.

2.Lower the output level of the IF sweeper as much as possible in the adjustable range.

3.The IF sweeper needs no adjustment as it is a fixed component.

4.It is not necessary to perform any kind of adjustment on the MPX, as a ceramic oscillator is used for measuring.

5.FM tracking adjustment is not necessary as a fixed coil is used.

6.The grounding circuit is separate from the input and output. Therefore, be sure to connect to ground carefully when measuring both the input and output voltages simultaneously using 2 channels of the electronic voltmeter.

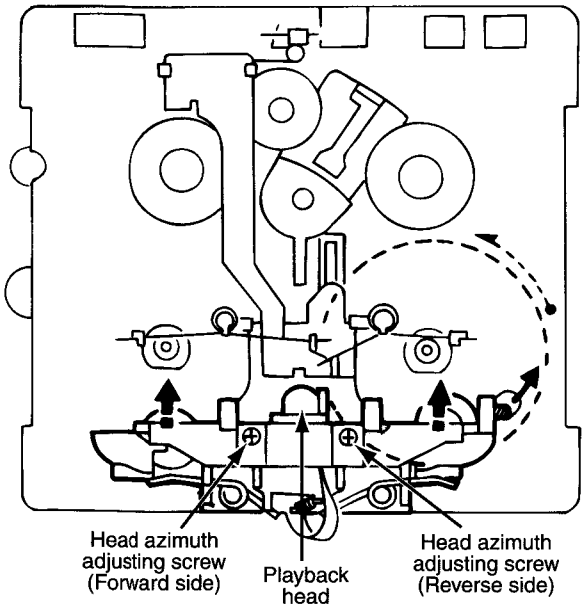
7.The speaker's minus terminal cannot be connected to ground when using a BTL format amplifier. Therefore, do not connect any type of ground wire to this terminal. The OTL format is used with this system.

8.Use a large wire to connect to the dummy impedance generator when measuring the output.

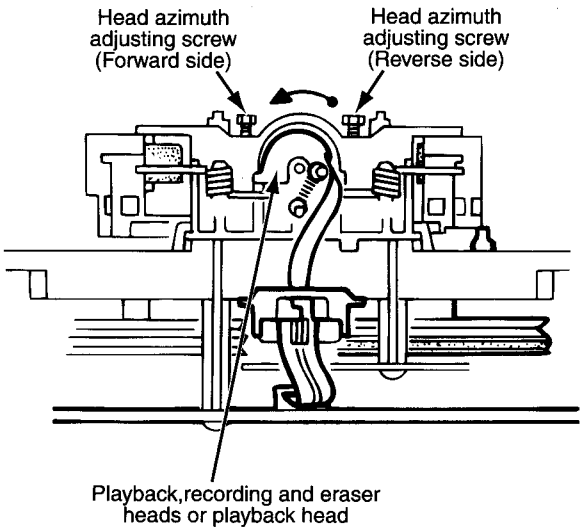
9.Be sure to use a band pass filter (DV-12) when using mixed tape.

## ■Arrangement of Adjusting Positions

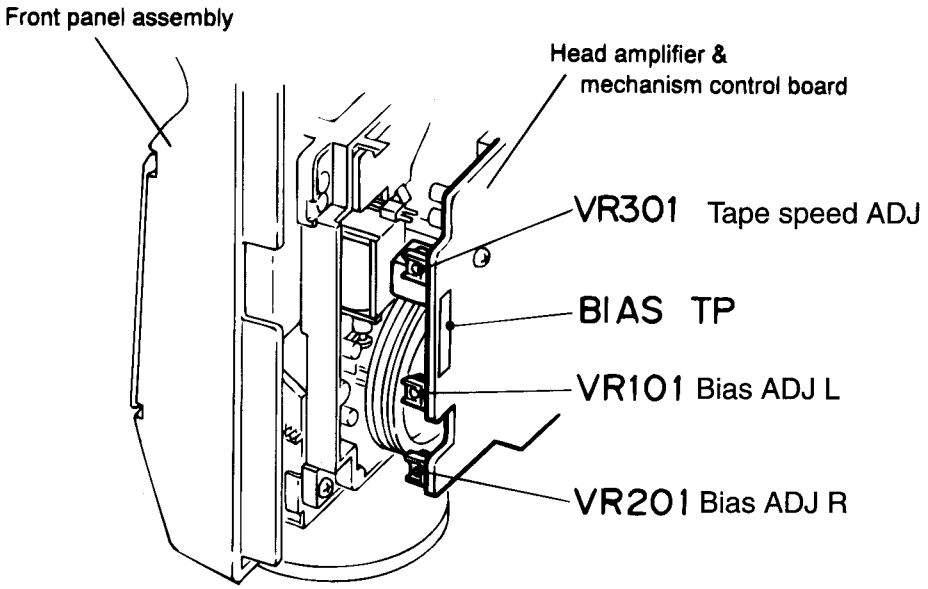
Cassette mechanism section (Mechanism A section)




Cassette mechanism section (Back side)


Head azimuth adjusting screw (Forward side)
Head azimuth adjusting screw (Reverse side)
Playback,recording and eraser heads or playback head

Cassette Mechanism Unit Section



## ■ Tape Recorder Section

| Items | Measurement conditions | Measurement method | Standard values | Adjusting positions |
|---|---|---|---|---|
| Confirmation of head angle | Test tape<br>:TMT7036(10kHz)<br>Measurement output terminal<br>:Speaker terminal<br>Speaker R<br>(Load resistor:3Ω)<br>:Headphone terminal | 1.Playback the test tape TMT7036(10kHz).<br>2.With the playback mechanism or recording & playback mechanism, adjust the head azimuth screw so that the forward and reverse output levels become maximum.After adjustment,lock the head azimuth at least by half a turn.<br>3.In either case,this adjustment should be performed in both the forward and reverse directions with the head azimuth screw. | Maximum output | Adjust the head azimuth screw only when the head has been changed. |
| Confirmation of tape speed | Test tape<br>:VTT712(3kHz) or TMT7036(3kHz)<br>Measurement output terminal<br>:Headphone terminal | <Constant speed><br>Adjust VR301 so that the frequency counter reading becomes 3,000Hz±60Hz when playing back the test tape VTT712(3kHz)with the playback mechanism or playback and recording mechanism after ending forward winding of the tape. | Tape speed of decks (A and B)<br>:3,000Hz<br>±60Hz | VR301 |

## ■ Reference Values for Confirmation items

| Items | Measurement conditions | Measurement method | Standard values | Adjusting positions |
|---|---|---|---|---|
| Double tape speed | Test tape<br>:TMT7036(10kHz)<br>Measurement output terminal<br>:Speaker terminal<br>Speaker R<br>(Load resistance:3Ω)<br>measurement output terminal<br>:Headphone terminal | After setting to the double speed motor, confirm that the frequency counter reading becomes 4,800+400/-300Hz when the test tape VTT712 (3kHz) has been play back with the playback mechanism. | 4,800+400/-300Hz | Playback mechanism side |
| Difference between the forward and reverse speed. P.mecha and R/P mecha speed | | When the test tape VTT712(3kHz) has been played back with the playback mechanism or recording and playback mechanism at the beginning of forward winding, the frequency counter reading of the difference between both of the mechanisms should be 6.0Hz or less. | 60Hz or less | Both the playback and recording & playback mechanism |
| Wow & flutter | Test tape<br>:TMT7036(10kHz)<br>Measurement output terminal<br>:Headphone terminal | When the test tape VTT712(3kHz) has been played back with the playback mechanism or recording and playback mechanism at the beginning of forward winding the frequency counter reading of wow & flutter should be 0.25% or less(WRMS). | with in 0.25% JIS(WTD) | Both the playback and recording & playback mechanism |

## ■ Electrical Performance

| Items | Measurement conditions | Measurement method | Standard values | Adjusting positions |
|---|---|---|---|---|
| Adjustment of recording bias current (Reference value) | *Mode : Forward or reverse mode<br>*Recording mode<br>*Test tape<br>:AC-514 and AC-225<br>Measurement output terminal<br>:Both recording and headphone terminals | 1.With the recording and playback mechanism, load the test tapes(AC-514 to TYP Ⅱ and AC-225 to TYP Ⅰ),and set the mechanism to the recording and pausing conditions in advance.<br>2.After connecting 100Ω in series to the recorder head,measure the bias current with a valve voltmeter at both of the terminals.<br>3.After resetting the [PAUSE] mode,start recording. At this time,adjust VR101 for LcH and VR201 for RcH so that the recording bias current values become 4.0μA (TYP Ⅰ) and 4.20μA(TYP Ⅱ). | AC-225<br>:4.20μA<br>AC-514<br>:4.0μA | LcH<br>:VR101<br>RcH<br>:VR201 |
| Adjustment of recording and playback frequency characteristics | Reference frequency<br>:1kHz and 10kHz<br>(REF:-20dB)<br>Test tape<br>:TYP Ⅱ AC-514<br>Measurement input terminal<br>:OSC IN | 1.With the recording and playback mechanism,load the test tape(AC-514 to TYP Ⅱ),and set the mechanism to the recording and pausing condition in advance.<br>2.While repetitively inputting the reference frequency signal of 1kHz and 10kHz from OSC IN, record and playback the test tape.<br>3.While recording and playing back the test tape in TYP Ⅱ,adjust VR101 for LcH and VR201 for RcH so that the output deviation between 1kHz and 10kHz becomes -1dB±2dB. | Output deviation between 1kHz and 10kH<br>:-1dB±2dB | LcH<br>:VR101<br>RcH<br>:VR201 |

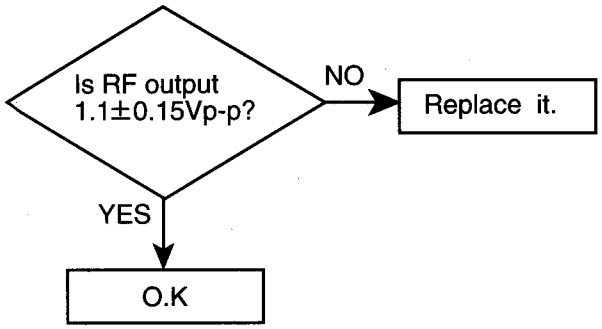
## ■ Reference Values for Electrical Function Confirmation Items

| Items | Measurement conditions | Measurement method | Standard values | Adjusting positions |
|---|---|---|---|---|
| Recording bias frequency | *Recording and playback side forward or reverse<br>*Test tape<br>:TYP Ⅱ AC-514<br>*Measurement terminal BIAS TP on P.C.board | 1.While changing over to and from BIAS 1 and 2, confirm that the frequency is changed.<br>2.With the recording and playback mechanism. load the test tape (AC-514 to TYP Ⅱ),and set the mechanism to the recording and pausing conditions in advance.<br>3.Confirm that the BIAS TP frequency on the P.C.board is 100kHz±6kHz. | 100kHz<br>+9kHz<br>-7kHz | |
| Eraser current (Reference value) | *Recording and playback side forward or reverse<br>*Recording mode<br>*Test tape<br>:AC-514 and AC-225<br>Measurement terminal<br>Both of the eraser head | 1.With the recording and playback mechanism, load the test tapes(AC-514 to TYP Ⅱ and AC-225 to TYP Ⅰ),and set the mechanism to the recording and pausing condition in advance.<br>2.After setting to the recording conditions,connect 1MΩ in series to the eraser head on the recording and playback mechanism side,and measure the eraser current from both of the eraser terminal. | TYP Ⅱ<br>:120mA<br>TYP Ⅰ<br>:75mA | |

# Maintenance of laser pickup

(1) Cleaning the pick up lens
Befor you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

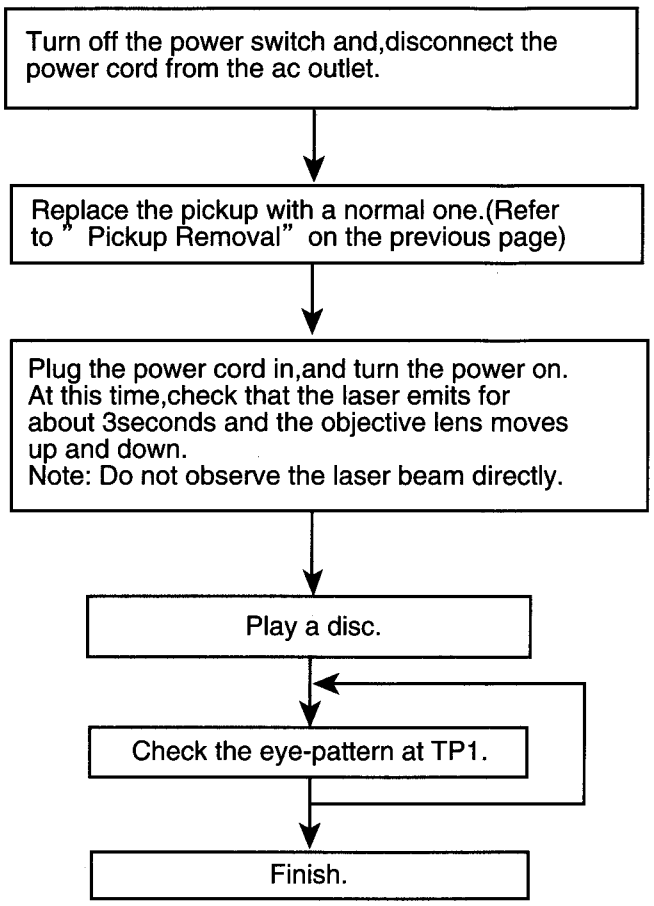
(2) Life of the laser diode (Fig.1)
When the life of the laser diode has expired, the following symptoms wil appear.
(1) The level of RF output (EFM output:amplitude of eye pattern) will below.



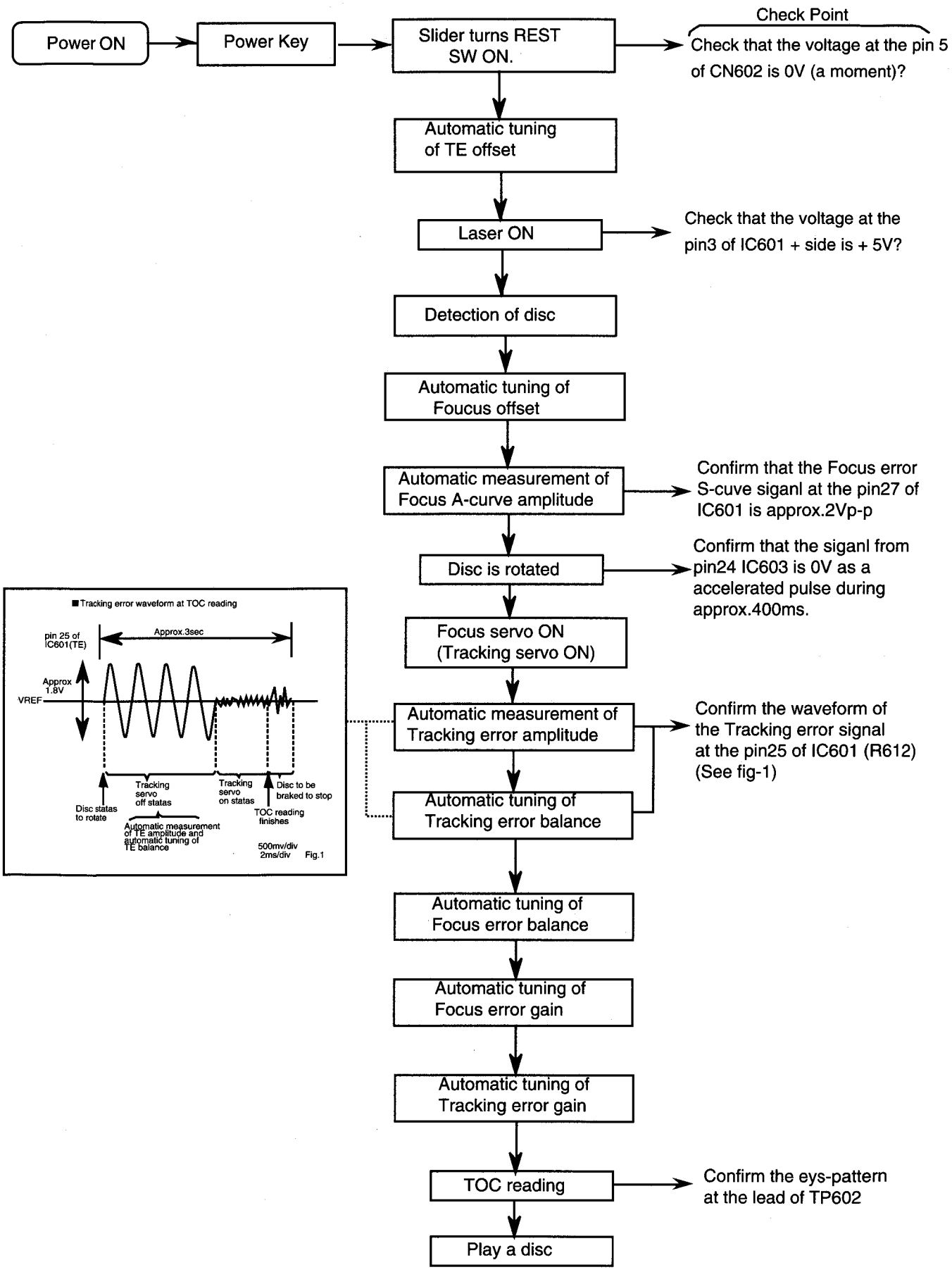

(Fig.1)

(3) Semi-fixed resistor on the APC PC board
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value,the laser diode is almost worn out, and the laser pickup should be replaced.
If the semi-fixed resistor is adjusted while the pickup is functioning normally,the laser pickup may be damaged due to excessive current.

# Replacement of laser pickup

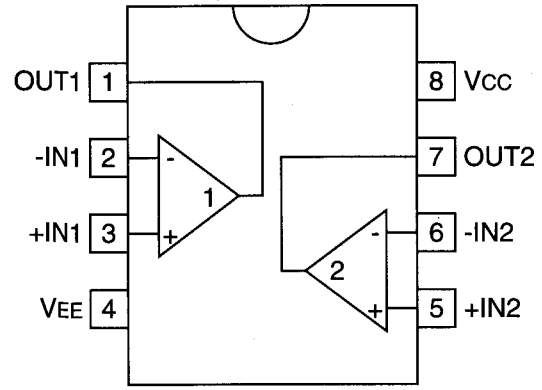

Turn off the power switch and,disconnect the power cord from the ac outlet.
Replace the pickup with a normal one.(Refer to " Pickup Removal" on the previous page)
Plug the power cord in,and turn the power on. At this time,check that the laser emits for about 3seconds and the objective lens moves up and down.
Note: Do not observe the laser beam directly.
Play a disc.
Check the eye-pattern at TP1.
Finish.

# Flow of functional operation until TOC read

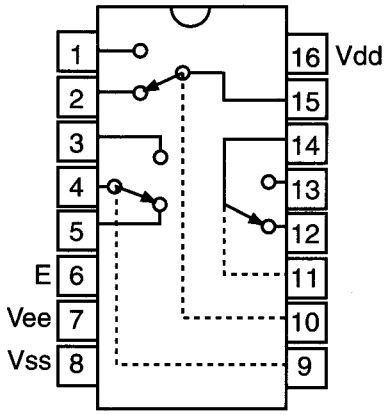

Power ON
Power Key
Slider turns REST SW ON.
Check Point
Check that the voltage at the pin 5 of CN602 is 0V (a moment)?
Automatic tuning of TE offset
Laser ON
Check that the voltage at the pin3 of IC601 + side is + 5V?
Detection of disc
Automatic tuning of Foucus offset
Automatic measurement of Focus A-curve amplitude
Confirm that the Focus error S-cuve siganl at the pin27 of IC601 is approx.2Vp-p
Disc is rotated
Confirm that the siganl from pin24 IC603 is 0V as a accelerated pulse during approx.400ms.
Focus servo ON (Tracking servo ON)
Automatic measurement of Tracking error amplitude
Confirm the waveform of the Tracking error signal at the pin25 of IC601 (R612) (See fig-1)
Automatic tuning of Tracking error balance
Automatic tuning of Focus error balance
Automatic tuning of Focus error gain
Automatic tuning of Tracking error gain
TOC reading
Confirm the eys-pattern at the lead of TP602
Play a disc
■Tracking error waveform at TOC reading
pin 25 of IC601(TE)
Approx.3sec
Approx 1.8V
VREF
Tracking servo off statas
Tracking servo on statas
Disc to be braked to stop
Disc statas to rotate
Automatic measurement of TE amplitude and automatic tuning of TE balance
TOC reading finishes
500mv/div
2ms/div
Fig.1

# Description of major ICs

## ■BA15218F(IC303):OP AMP.

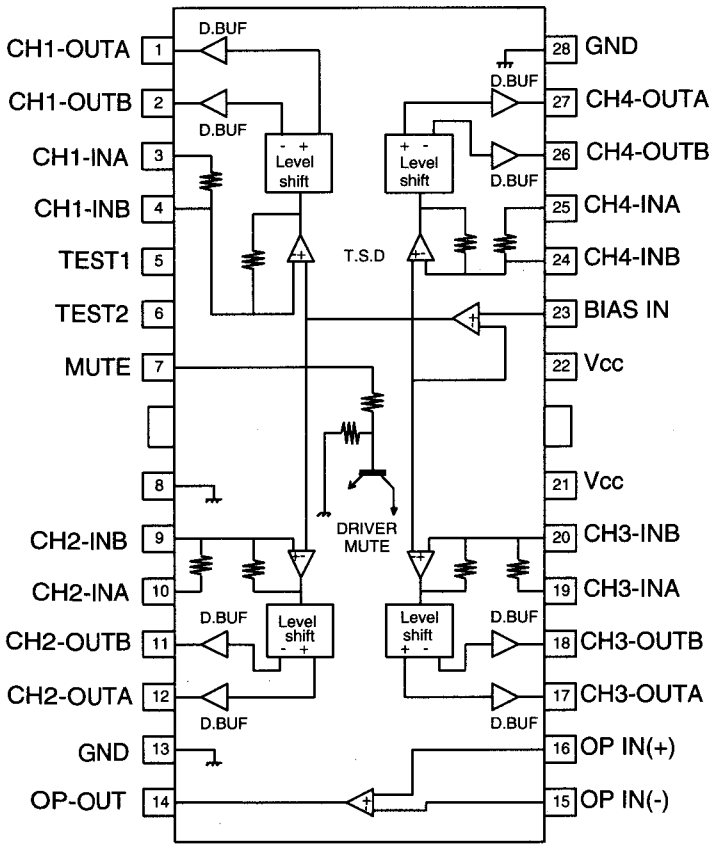



## ■TC4053BP(IC304):Analog switch



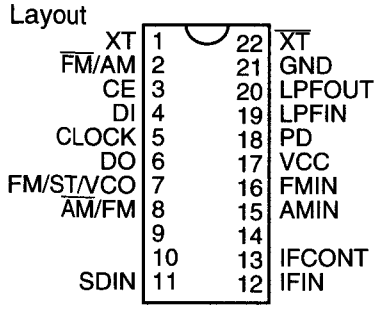

| | Pin 9 | | Pin 10 | | Pin 11 | |
|---|---|---|---|---|---|---|
| $\overline{E}$ | L | H | L | H | L | H |
| L | 4-5 | 4-3 | 15-2 | 15-1 | 14-12 | 14-13 |
| H | All OFF | | | | | |

## ■BA6897FPW(IC602):4channel driver

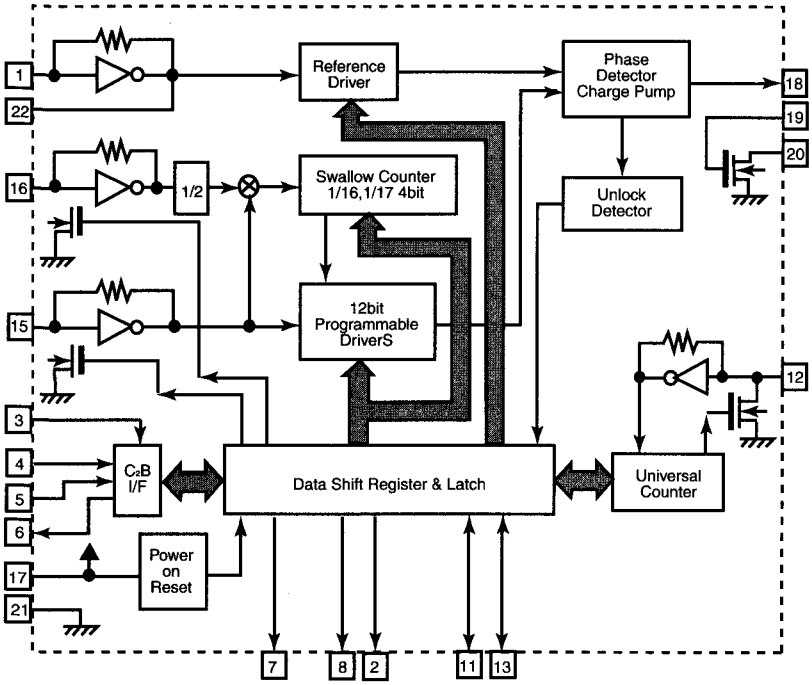


## ■LC72136N(IC2):PLL Frequency synthesizer

1. Layout




2. Block

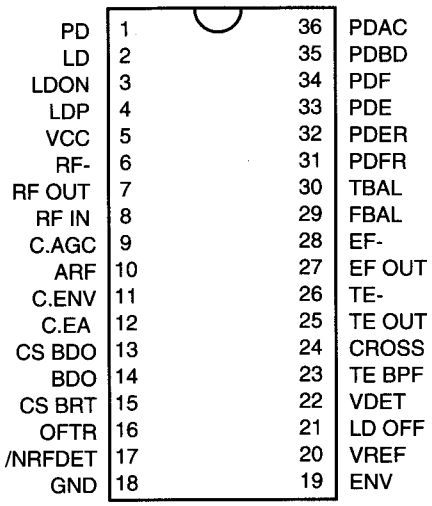



3. Function

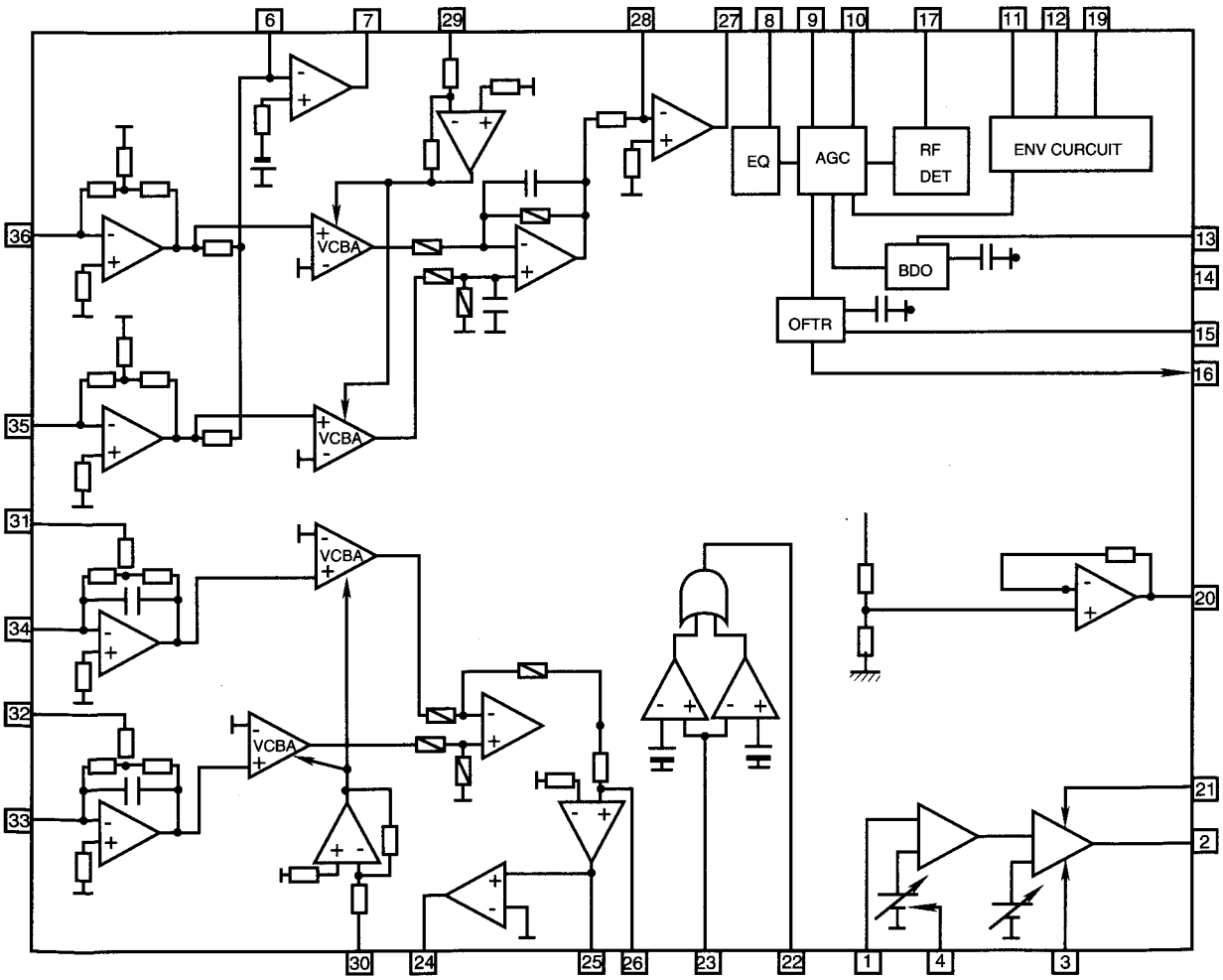
| Pin No. | Symbol | I/O | Function | Pin No. | Symbol | I/O | Function |
|---|---|---|---|---|---|---|---|
| 1 | XT | I | X'tal oscillator connect (75kHz) | 12 | IFIN | I | IF counter signal input |
| 2 | $\overline{FM}$/AM | O | LOW:FM mode | 13 | IFCONT | O | IF signal output |
| 3 | CE | I | When data output/input for 4pin(input) and 6pin(output): H | 14 | | - | Not use |
| 4 | DI | I | Input for receive the sirisl data from controller | 15 | AMIN | I | AM Local OSC signal output |
| 5 | CLOCK | I | Sync signal input use | 16 | FMIN | I | FM Local OSC signal input |
| 6 | DO | O | Data output for Controller Output port | 17 | VCC | - | Power suplly(VDD=4.5-5.5V) When power ON:Reset circuit move |
| 7 | FM/ST/VCO | O | "Low": MW mode | 18 | PD | O | PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance) |
| 8 | $\overline{AM}$/FM | O | Not use | 19 | LPFIN | I | Input for active lowpassfilter of PLL |
| 9 | | - | Not use | 20 | LPFOUT | O | Output for active lowpassfilter of PLL |
| 10 | | - | Input/output port | 21 | GND | - | Connected to GND |
| 11 | SDIN | I/O | Data input/output | 22 | $\overline{XT}$ | I | X'tal oscillator(75KHz) |

## ■AN8806SB (IC601) : RF&Servo AMP

1.Pin Layout




2.Block Diagram

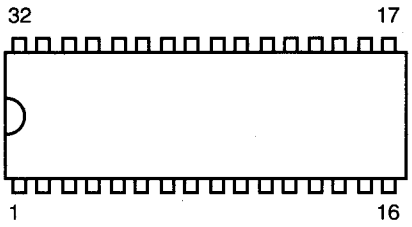


3. Pin Functions

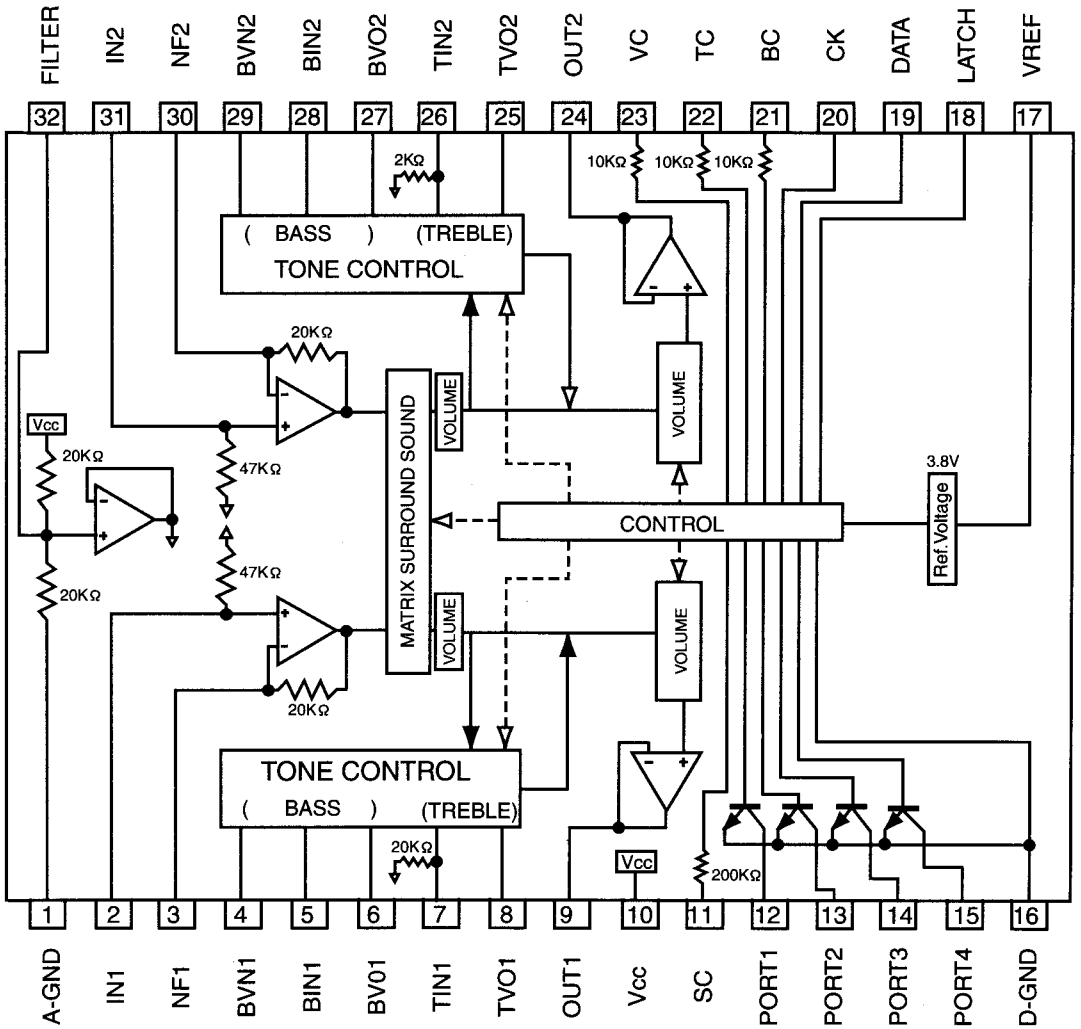
| Pin No. | Symbol | I/O | Functions and operations |
|---|---|---|---|
| 1 | PD | I | APC amp input terminal |
| 2 | LD | O | APC amp output terminal |
| 3 | LD ON | I | APC ON/OFF control terminal |
| 4 | LDP | -- | Connect to ground |
| 5 | VCC | -- | Power supply |
| 6 | RF- | I | Inverse input pin for RF amp |
| 7 | RF OUT | O | RFamp output |
| 8 | RF IN | I | RF input |
| 9 | C.AGC | I/O | Connecting pin of AGC loop filter |
| 10 | ARF | O | RF output |
| 11 | C.ENV | I/O | A capacitor is connected to this terminal to detect the envelope of RF signal |
| 12 | C.EA | I/O | A capacitor is connected to this terminal to detect the envelope of RF signal |
| 13 | CS BDO | I/O | A capacitor is connected to detect the lower envelope of RF signal |
| 14 | BDO | O | BDO output pin |
| 15 | CS BRT | I/O | A capacitor is connected to detect the lower envelope of RF signal |
| 16 | OFTR | O | Of-track status signal output |
| 17 | /NRFDET | O | RF detection signal output |
| 18 | GND | -- | Ground |
| 19 | ENV | O | Envelope output |
| 20 | VREF | O | Reference voltage output |
| 21 | LD OFF | -- | Connect to ground |
| 22 | VDET | O | Vibration detection signal output |
| 23 | TE BPF | I | Input pin of tracking error through BPF |
| 24 | CROSS | O | Tracking error cross output |
| 25 | TE OUT | O | Tracking error signal output |
| 26 | TE- | I | Inverse input pin for tracking error amp |
| 27 | FE OUT | O | Output pin of focus error |
| 28 | FE- | I | Inverse input pin for focus error amp |
| 29 | FBAL | I | Focus balance control |
| 30 | TBAL | I | Tracking balance control |
| 31 | PDFR | I/O | F I-V amp gain control |
| 32 | PDER | I/O | E I-V amp gain control |
| 33 | PDF | I | I-V amp input |
| 34 | PDE | I | I-V amp input |
| 35 | PD BD | I | I-V amp input |
| 36 | PD AC | I | I-V amp input |

## ■BH3854AS(IC302): E.Volume

1.Terminal layout




2.Block diagram




◎ Volume, bass treble and surround can be also controlled externally by giving DC voltage through VC (volume control) terminal, BC (bass control) terminal, TC (treble control) terminal and SC (surround control) terminal.

◎ Impedance of VC, TC and BC terminals is 10 K Ω (Typ.).

◎ Impedance of SC terminal is 200K Ω (Typ.).

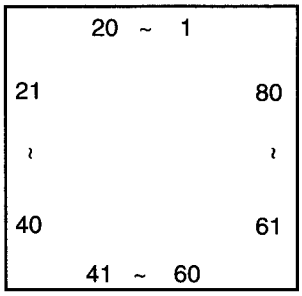
3. Pin function

BH3854AS

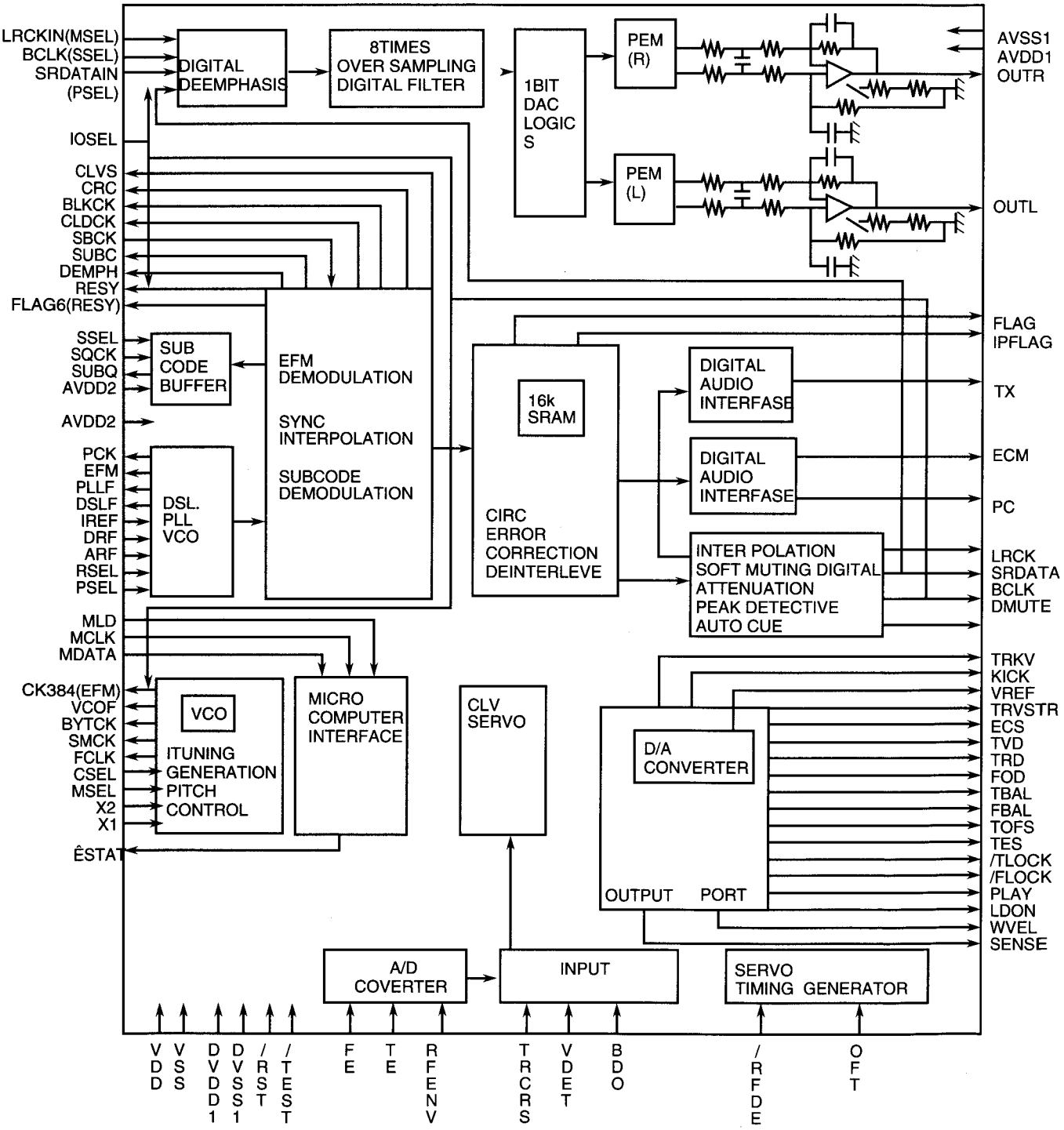
| PIN | PIN Name | Function | PIN | PIN Name | Function |
|---|---|---|---|---|---|
| 1 | A-GND | Analog system ground | 17 | VREF | Terminal for 3.8V reference voltage output |
| 2 | IN1 | Terminal for 1ch volume input | 18 | LATCH | Terminal to receive latch data |
| 3 | NF1 | Terminal for gain adjustment of input step AMP | 19 | DATA | Terminal to receive data |
| 4 | BVN1 | Terminal for connection of 1ch low-frequency filter | 20 | CK | Terminal to receive clock |
| 5 | BIN1 | Terminal for connection of 1ch low-frequency filter | 21 | BC | Terminal for time constant attachment for switching shock protection |
| 6 | BV01 | Terminal for connection of 1ch low-frequency filter | | | |
| 7 | TIN1 | Terminal for connection of 1ch high-frequency filter | 22 | TC | Terminal for time constant attachment for switching shock protection |
| 8 | TV01 | Terminal for connection of 1ch high-frequency filter | | | |
| 9 | OUT1 | Terminal for 1ch volume output | 23 | VC | Terminal for time constant attachment for switching shock protection |
| 10 | Vcc | Terminal for power supply | | | |
| 11 | SC | Terminal for time constant attachment for switching shock protection | 24 | OUT2 | Terminal for 2ch volume output |
| | | | 25 | TV02 | Terminal for connection of 2ch high-frequency filter |
| 12 | PORT1 | Terminal for port output | 26 | TIN2 | Terminal for connection of 2ch high-frequency filter |
| 13 | PORT2 | Terminal for port output | 27 | BV02 | Terminal for connection of 2ch low-frequency filter |
| 14 | PORT3 | Terminal for port output | 28 | BIN2 | Terminal for connection of 2ch low-frequency filter |
| 15 | PORT4 | Terminal for port output | 29 | BVN2 | Terminal for connection of 2ch low-frequency filter |
| 16 | D-GND | Digital system ground | 30 | NF2 | Terminal for gain adjustment of input step AMP |
| | | | 31 | IN2 | Terminal for 2ch volume output |
| | | | 32 | FILTER | Terminal for filter |

## ■MN35510 (IC603) : DIGITAL SERVO&DIGITAL SIGNAL PROCESSER

1. Pin Layout




2.Block Diagram

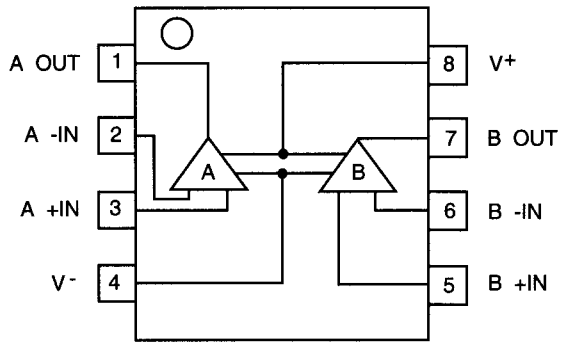


## 3. Pin function

| Pin No. | symbol | I/O | Description | Pin No. | symbol | I/O | Description |
|---|---|---|---|---|---|---|---|
| 1 | BCLK | O | Not used | 41 | TES | O | Tracking error shunt signal output(H:shunt) |
| 2 | LRCK | O | Not used | 42 | PLAY | — | Not used |
| 3 | SRDATA | O | Not used | 43 | WVEL | — | Not used |
| 4 | DVDD1 | — | Power supply (Digital) | 44 | ARF | I | RF signal input |
| 5 | DVSS1 | — | Connected to GND | 45 | IREF | I | Reference current input pin |
| 6 | TX | O | Digital audio interface output | 46 | DRF | I | Bias pin for DSL |
| 7 | MCLK | I | μcom command clock signal input (Data is latched at signal's rising point) | 47 | DSLF | I/O | Loop filter pin for DSL |
| 8 | MDATA | I | μcom command data input | 48 | PLLF | I/O | Loop filter pin for PLL |
| 9 | MLD | I | μcom command load signal input | 49 | VCOF | — | Not used |
| 10 | SENSE | O | Sence signal output | 50 | AVDD2 | — | Power supply(Analog) |
| 11 | FLOCK | O | Focus lock signal output Active :Low | 51 | AVSS2 | — | Connected to GND(Analog) |
| 12 | TLOCK | O | Tracking lock signal output Active :Low | 52 | EFM | — | Not used |
| 13 | BLKCK | O | sub-code/block/clock signal output | 53 | PCK | — | Not used |
| 14 | SQCK | I | Outside clock for sub-code Q resister input | 54 | PDO | — | Not used |
| 15 | SUBQ | O | Sub-code Q -code output | 55 | SUBC | — | Not used |
| 16 | DMUTE | — | Connected to GND | 56 | SBCK | — | Not used |
| 17 | STATUS | O | Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK) | 57 | VSS | — | Connected to GND(for X'tal oscillation circuit) |
| 18 | RST | I | Reset signal input (L:Reset) | 58 | XI | I | Input of 16.9344MHz X'tal oscillation circuit |
| 19 | SMCK | — | Not used | 59 | X2 | O | Output of X'tal oscillation circuit |
| 20 | PMCK | — | Not used | 60 | VDD | — | Power supply(for X'tal cscillation circuit) |
| 21 | TRV | O | Traverse enforced output | 61 | BYTCK | — | Not used |
| 22 | TVD | O | Traverse drive output | 62 | CLDCK | — | Not used |
| 23 | PC | — | Not used | 63 | FLAG | — | Not used |
| 24 | ECM | O | Spindle motor drive signal (Enforced mode output) 3-State | 64 | IPPLAG | — | Not used |
| 25 | ECS | O | Spindle motor drive signal (Servo error signal output) | 65 | FLAG | — | Not used |
| 26 | KICK | O | Kick pulse output | 66 | CLVS | — | Not used |
| 27 | TRD | O | Tracking drive output | 67 | CRC | — | Not used |
| 28 | FOD | O | Focus drive output | 68 | DEMPH | | Not used |
| 29 | VREF | I | Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL) | 69 | RESY | — | Not used |
| 30 | FBAL | O | Focus Balance adjust signal output | 70 | IOSEL | — | pull up |
| 31 | TBAL | O | Tracking Balance adjust signal output | 71 | TEST | — | pull up |
| 32 | FE | I | Focus error signal input(Analog input) | 72 | AVDD1 | — | Power supply(Digital) |
| 33 | TE | I | Tracking error signal input(Analog input) | 73 | OUT L | O | Lch audio output |
| 34 | RF ENV | I | RF envelope signal input(Analog input) | 74 | AVSS1 | — | Connected to GND |
| 35 | VDET | I | Vibration detect signal input(H:detect) | 75 | OUT R | O | Rch audio output |
| 36 | OFT | I | Off track signal input(H:off track) | 76 | RSEL | — | pull up |
| 37 | TRCRS | I | Track cross signal input | 77 | CSEL | — | Connected to GND |
| 38 | RFDET | I | RF detect signal input(L:detect) | 78 | PSEL | — | Connected to GND |
| 39 | BDO | I | BDO input pin(L:detect) | 79 | MSEL | — | Connected to GND |
| 40 | LDON | O | Laser ON signal output(H:on) | 80 | SSEL | — | Pull up |

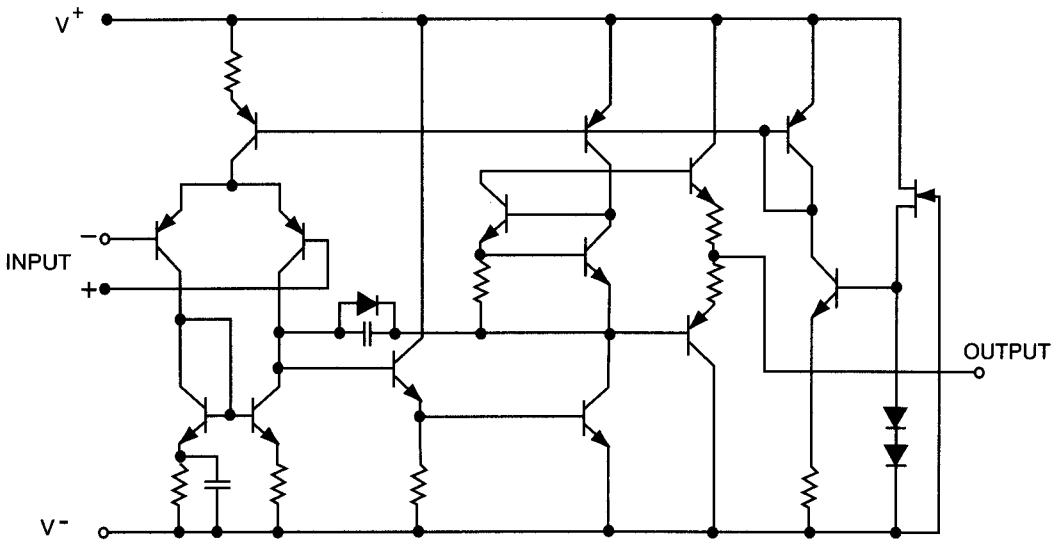
## ■NJM4580D (IC511/601/651/941/942/971) : LPF, Mic and H.phone Amp.

1.Terminal layout

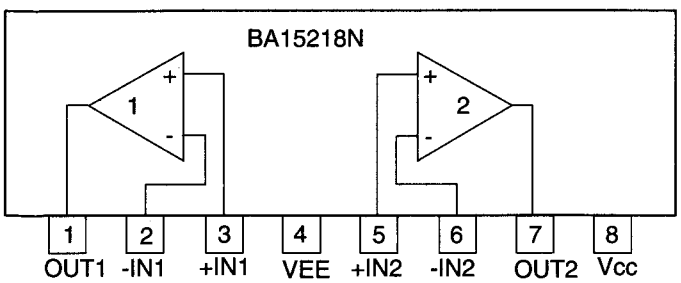



(TOP VIEW)

2.Block diagram

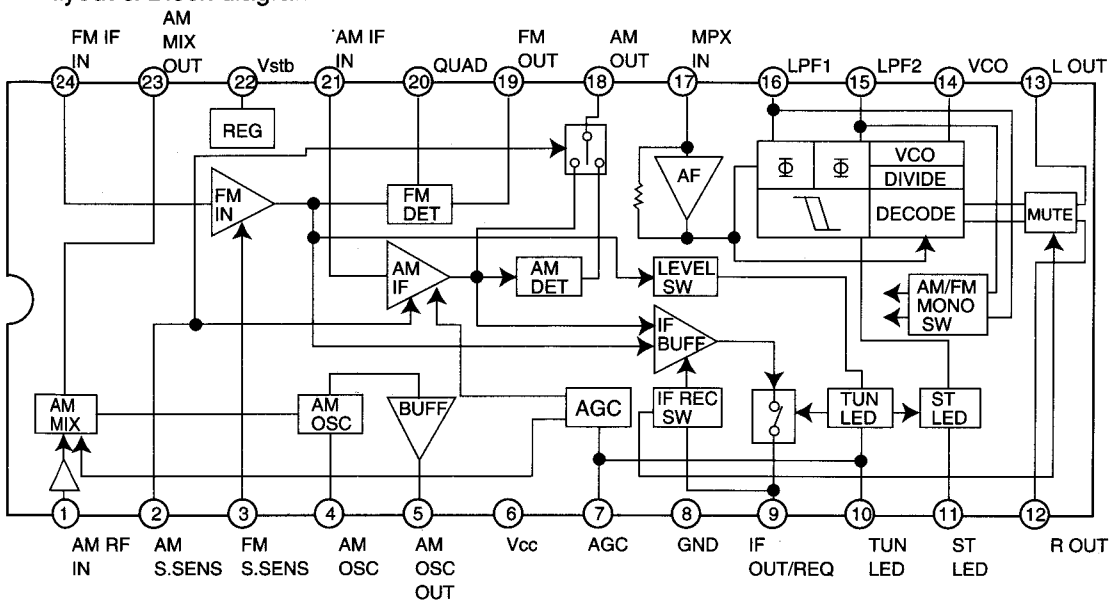



## ■BA15218N (IC303):OP AMP.



## ■TA2057(IC1):FM/AM IF Amp & Detector

1. Pin layout & Block diagram

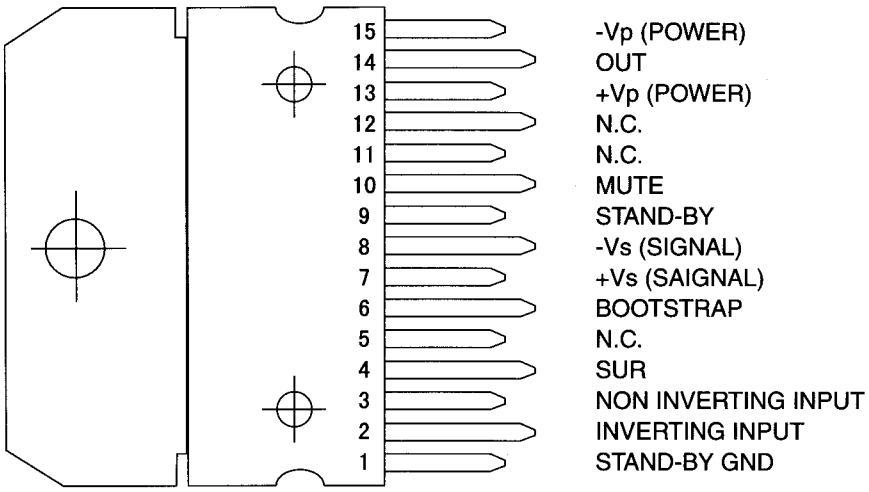



2. Pin function

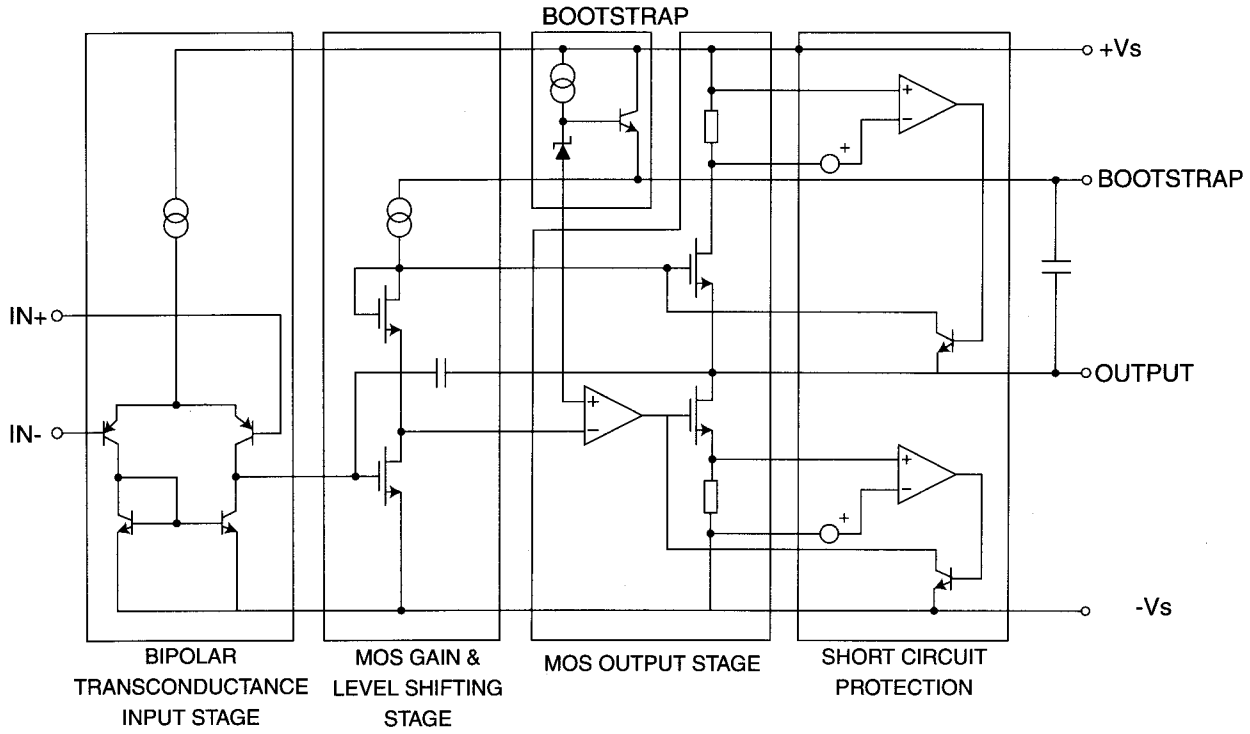
| Pin No. | I/O | Symbol | Function | Pin No. | I/O | Symbol | Function |
|---|---|---|---|---|---|---|---|
| 1 | I | AM RF | AMRF signal input | 13 | O | L ch | Lch output |
| 2 | | AM S.SENS | | 14 | O | VCO | VCO Oscillator connection terminal |
| 3 | | FM S.SENS | | 15 | O | LPF2 | Terminal voltage "H"= MONO "L"= ST |
| 4 | - | AM OSC | AM Local oscillation | 16 | O | LPF1 | Terminal voltage "H"= AM "L"= FM |
| 5 | O | AM OSC OUT | AM Local oscillation output | 17 | I | MPX IN | Multiplex signal input |
| 6 | - | VCC | Power supply terminal | 18 | O | AM OUT | AM Detect output |
| 7 | I | AGC | AGC Voltage input | 19 | O | FM OUT | FM Detect output |
| 8 | - | GND | Ground | 20 | I | FM QUAD | FM IF Bypass |
| 9 | O | IF OUT | IF count signal output | 21 | I | AM IF IN | AM IF Signal input |
| 10 | O | TU IND | Indicator drive output when tuning | 22 | - | Vst | Reference voltage output terminal |
| 11 | O | ST IND | Stereo indicator drive output "H" : Monoral "L" : Stereo | 23 | O | AM MIX OUT | AM Mixer output |
| 12 | O | Rch OUT | Rch output | 24 | I | FM IF IN | FM IF Signal input |

## ■TDA7295 (IC101,IC102) : AUDIO AMP

1. Pin arrangement chart



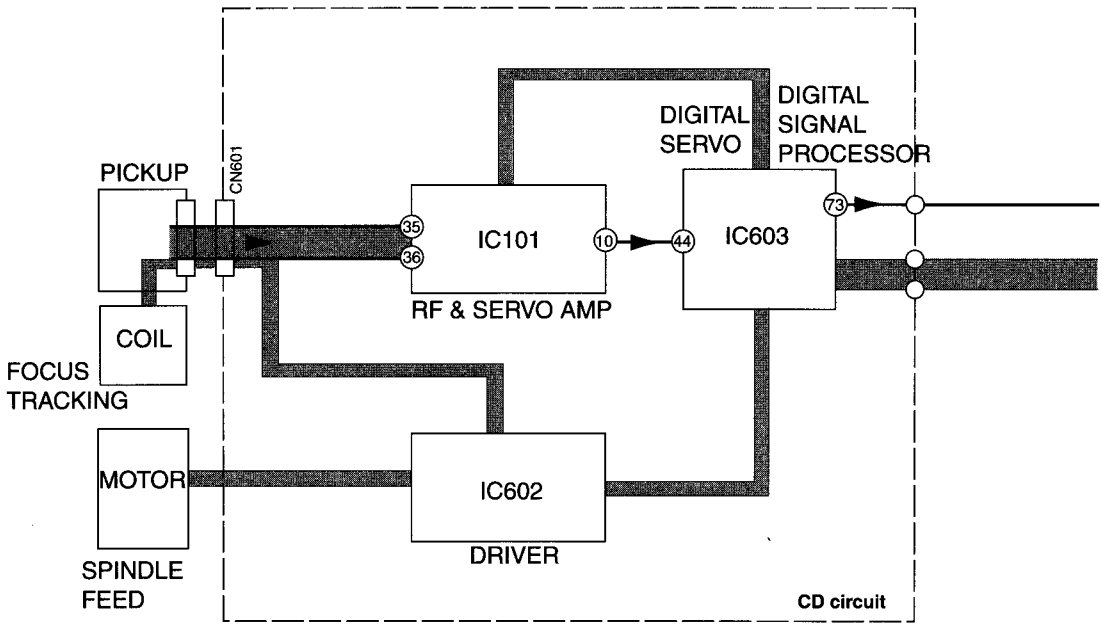

2. Block diagram



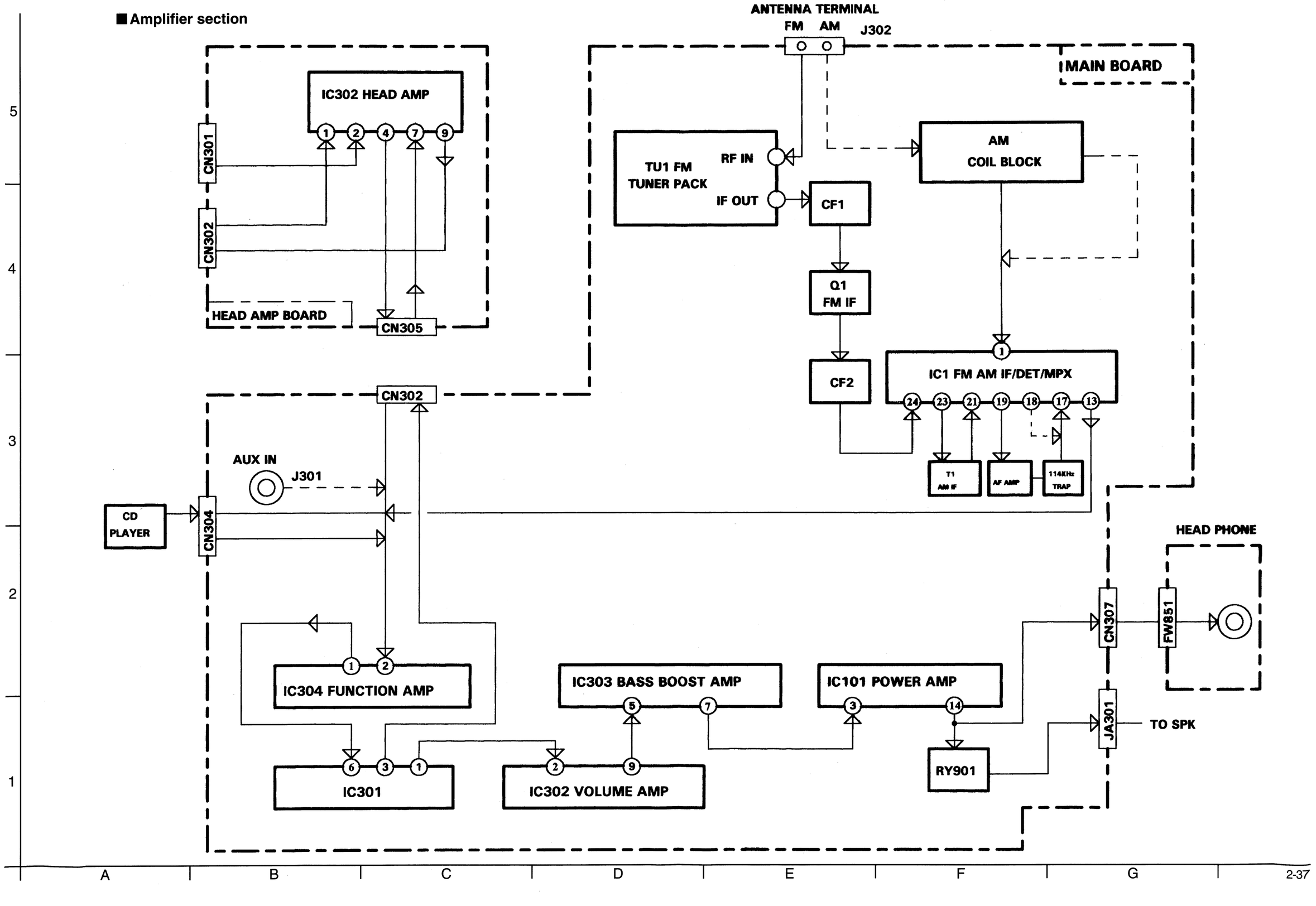
# -MEMO-

# Block diagrams

## ■CD section

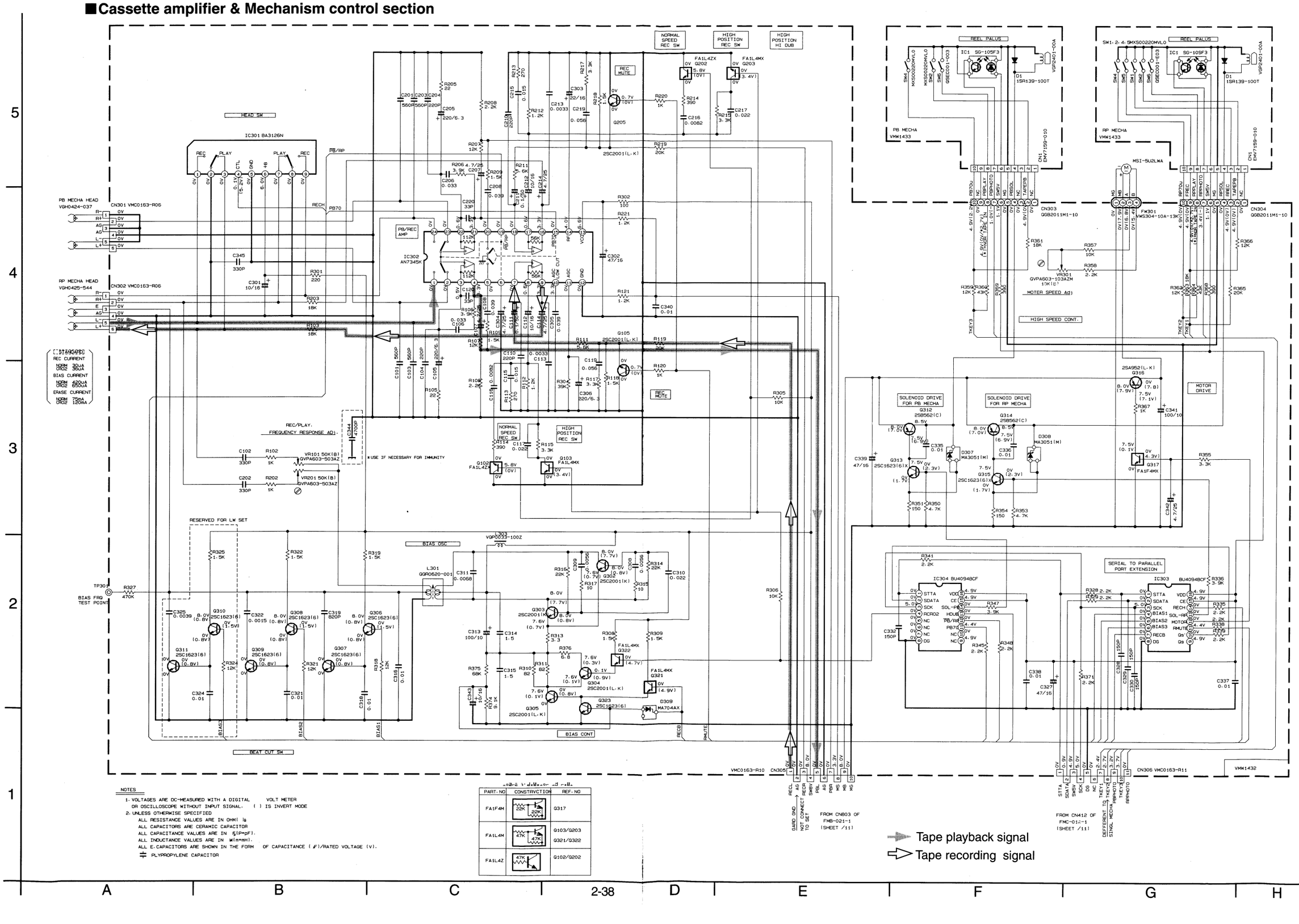


■ Amplifier section



# Standard schematic diagrams

## ■Cassette amplifier & Mechanism control section




NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. ( ) IS INVERT MODE
2. UNLESS OTHERWISE SPECIFIED
   - ALL RESISTANCE VALUES ARE IN OHM( Ω
   - ALL CAPACITORS ARE CERAMIC CAPACITOR
   - ALL CAPACITANCE VALUES ARE IN μ(P=pF).
   - ALL INDUCTANCE VALUES ARE IN m(m=mH).
   - ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE ( F)/RATED VOLTAGE (V).
   - PLYPROPYLENE CAPACITOR

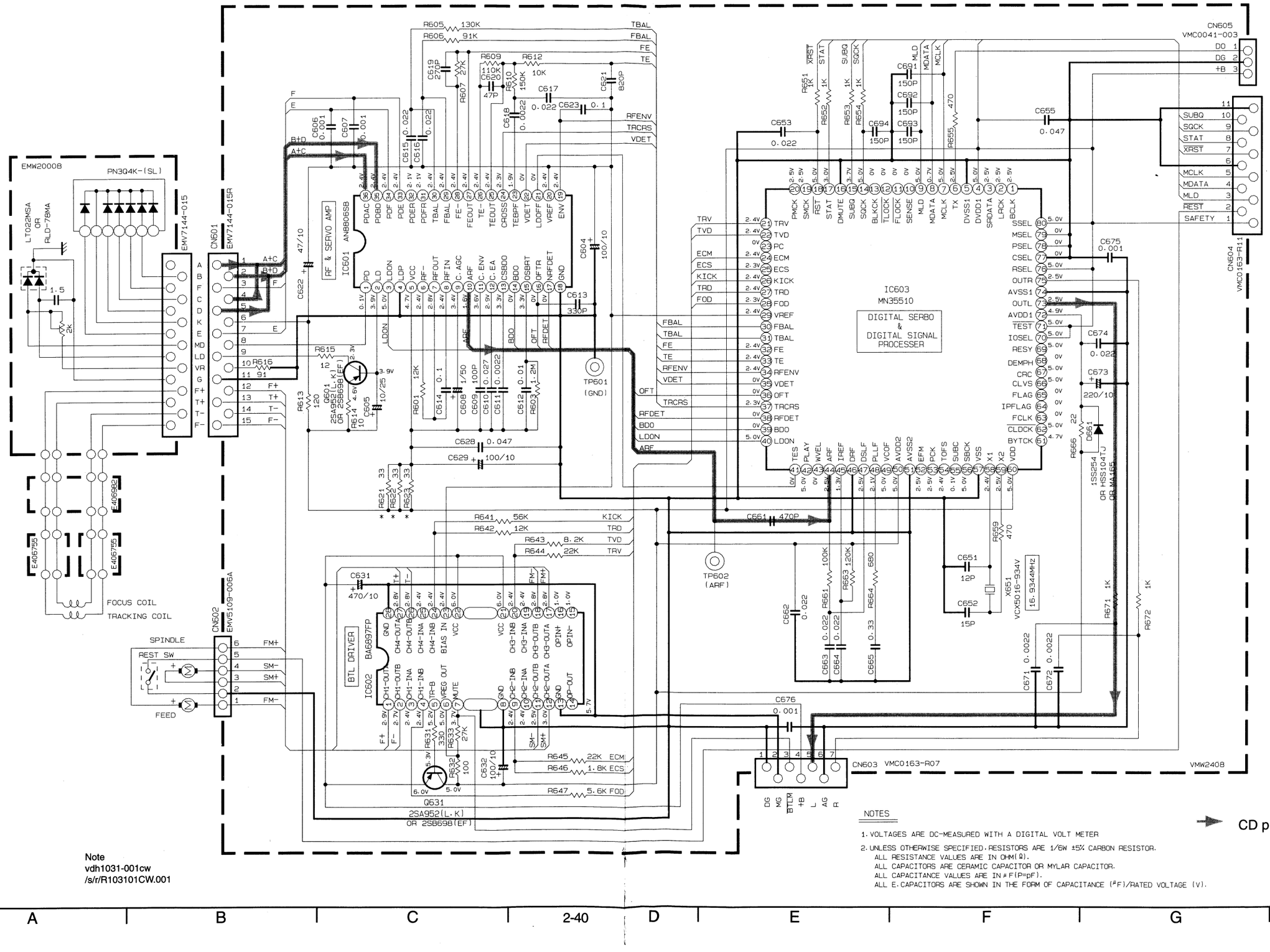
| PART. NO | CONSTRUCTION | REF. NO |
|---|---|---|
| FA1F4M | 22K 22K | Q317 |
| FA1L4M | 47K 47K | Q103/Q203 Q321/Q322 |
| FA1L4Z | 47K | Q102/Q202 |

## ■System control circuit

| | R479 | R967 | R698 |
|---|---|---|---|
| J | 47K | OPEN | OPEN |
| U | OPEN | OPEN | OPEN |
| E | 47K | JUMPER | 75K |
| EE/EV | OPEN | 18K | 10K |

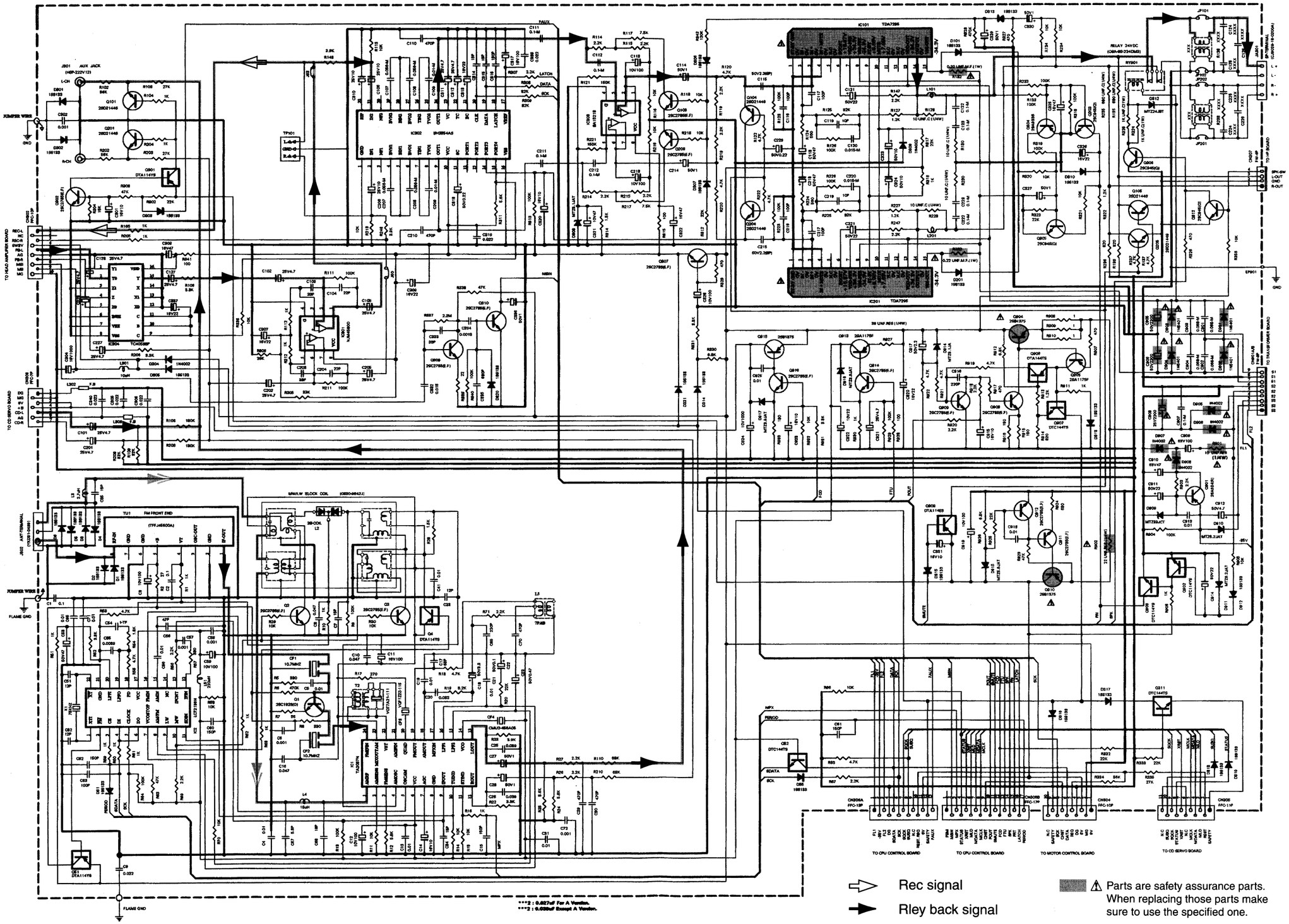
| | R479 | R697 | R698 |
|---|---|---|---|
| A | OPEN | JUMPER | 10K |
| | | | |
| | | | |
| | | | |

## ■ CD servo & amplifier circuit

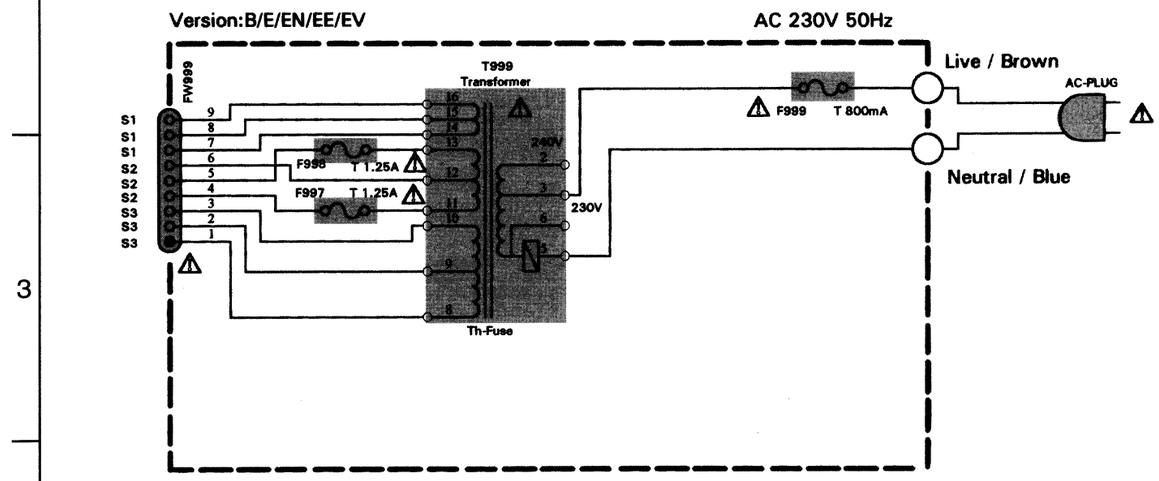



Note
vdh1031-001cw
/s/r/R103101CW.001

## ■Amplifier circuit


Rec signal
Rley back signal
MW signal
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.
***2 : 0.027nF For A Version.
***2 : 0.039nF Except A Version.
TO CPU CONTROL BOARD
TO CPU CONTROL BOARD
TO MOTOR CONTROL BOARD
TO CD SERVO BOARD
TO HEAD AMPLIFIER BOARD
TO CD SERVO BOARD
TO TRANSFORMER BOARD
TO I/O BOARD

# -MEMO-



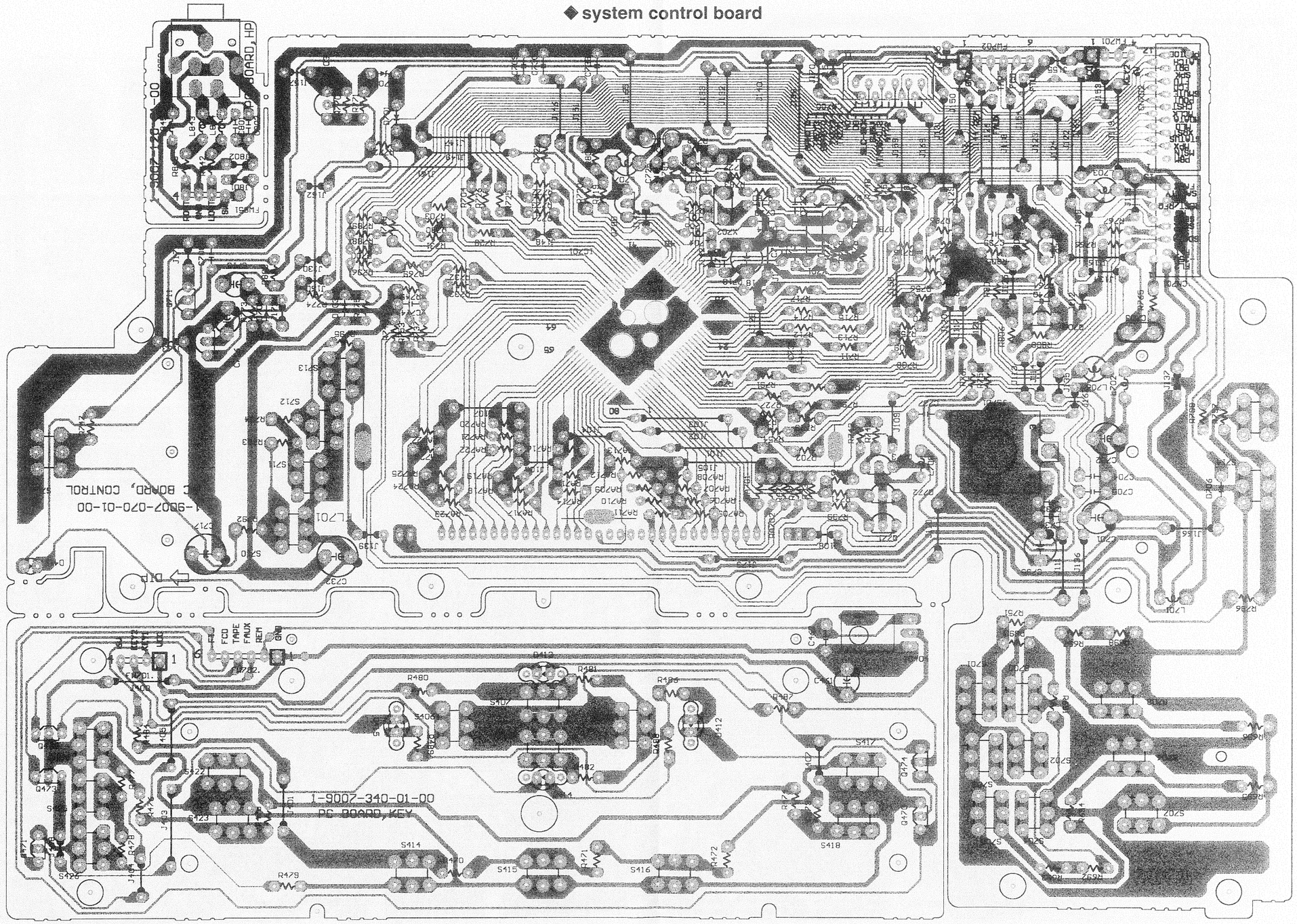

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

# Printed circuit board

■ System control board  Block No. 0 1

◆ H.Phone jack board

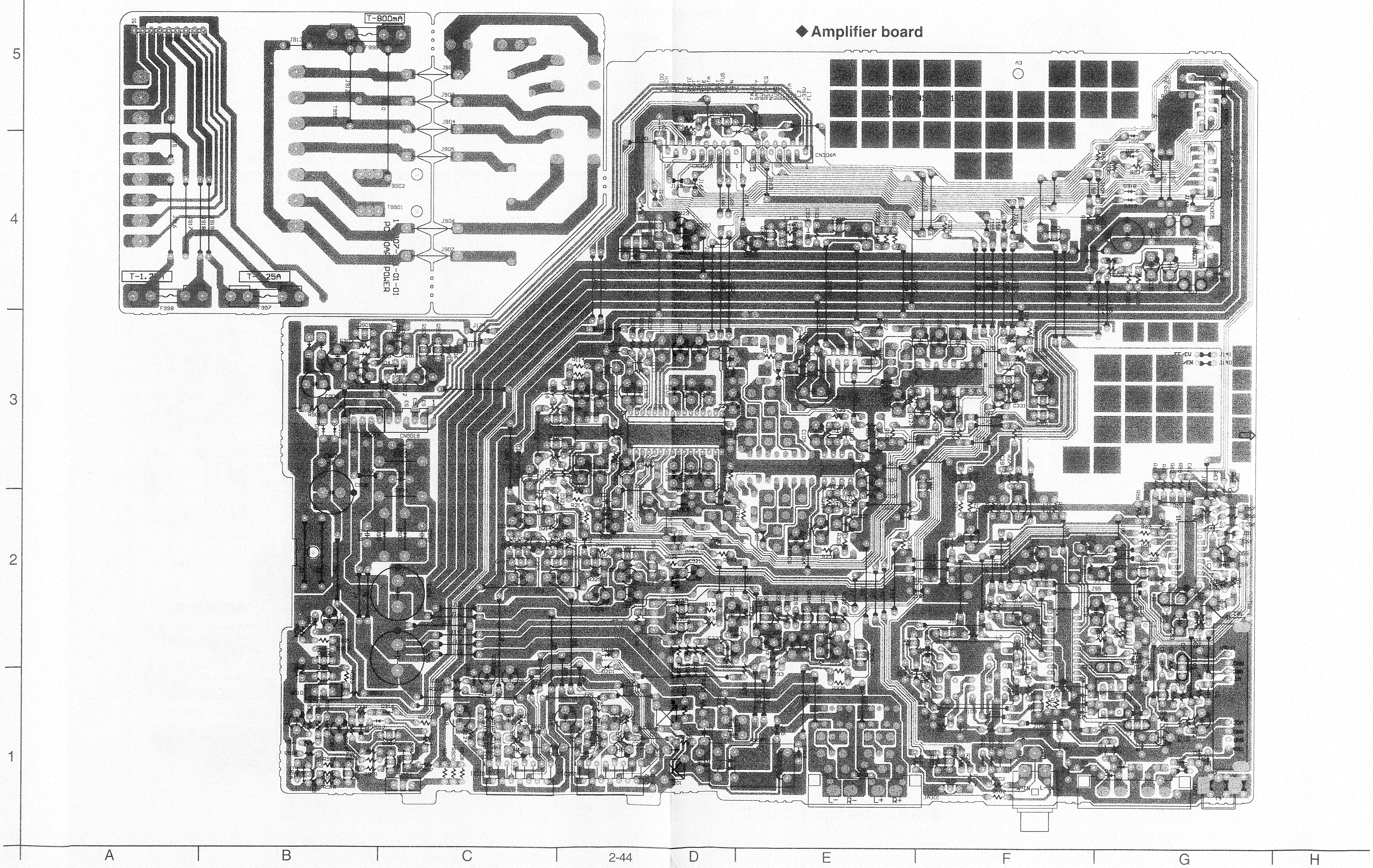
◆ system control board



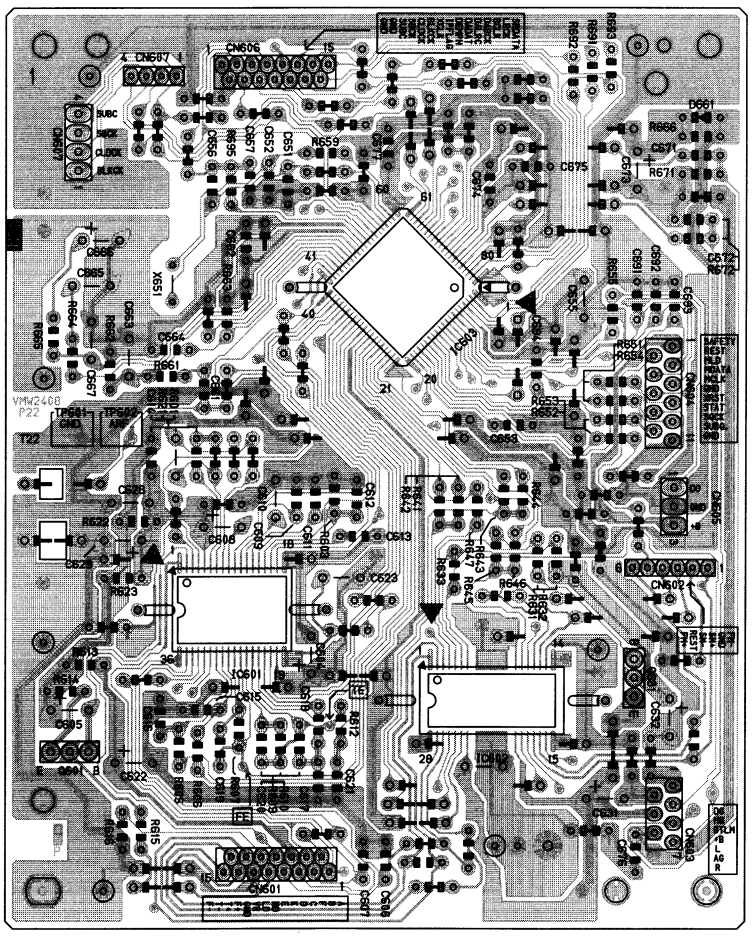

◆ Key switch board

## ■ P.C. Board (Amplifier board)

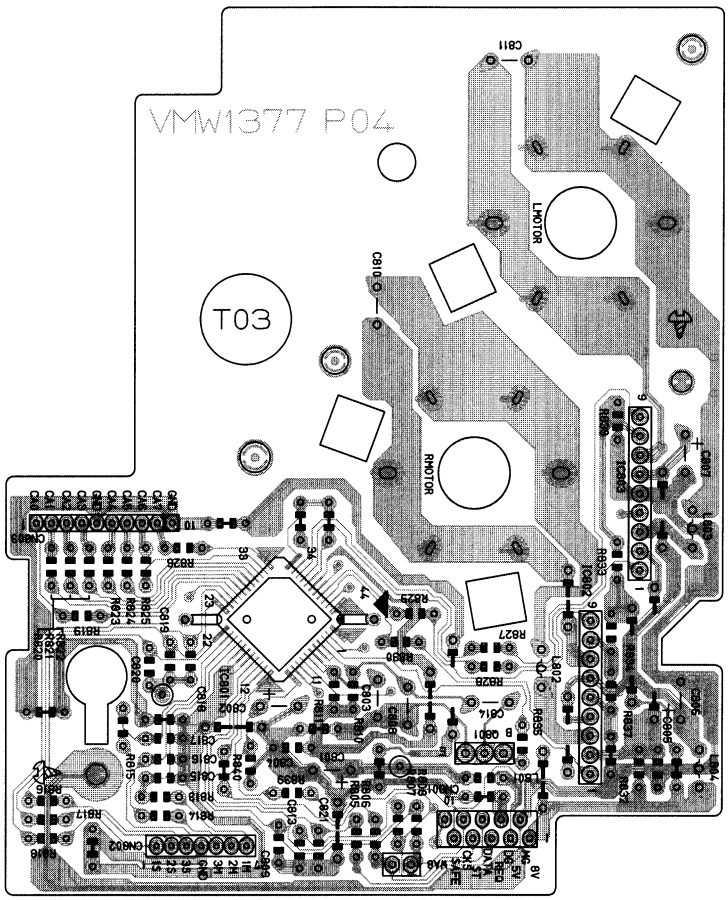
Block No. 0 2



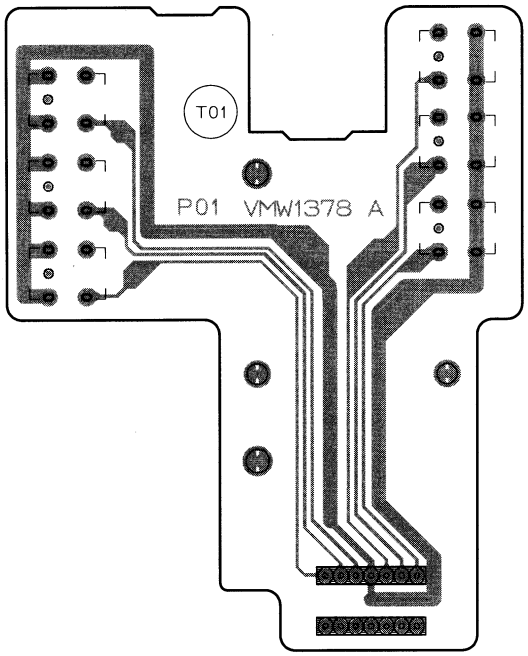
## ■CD Servo & amplifier board



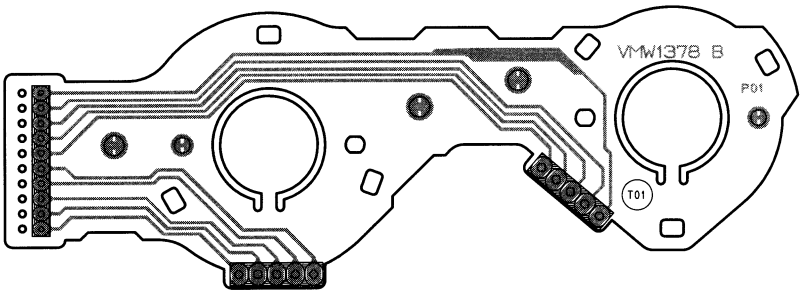
## ■CD Mechanism driver board



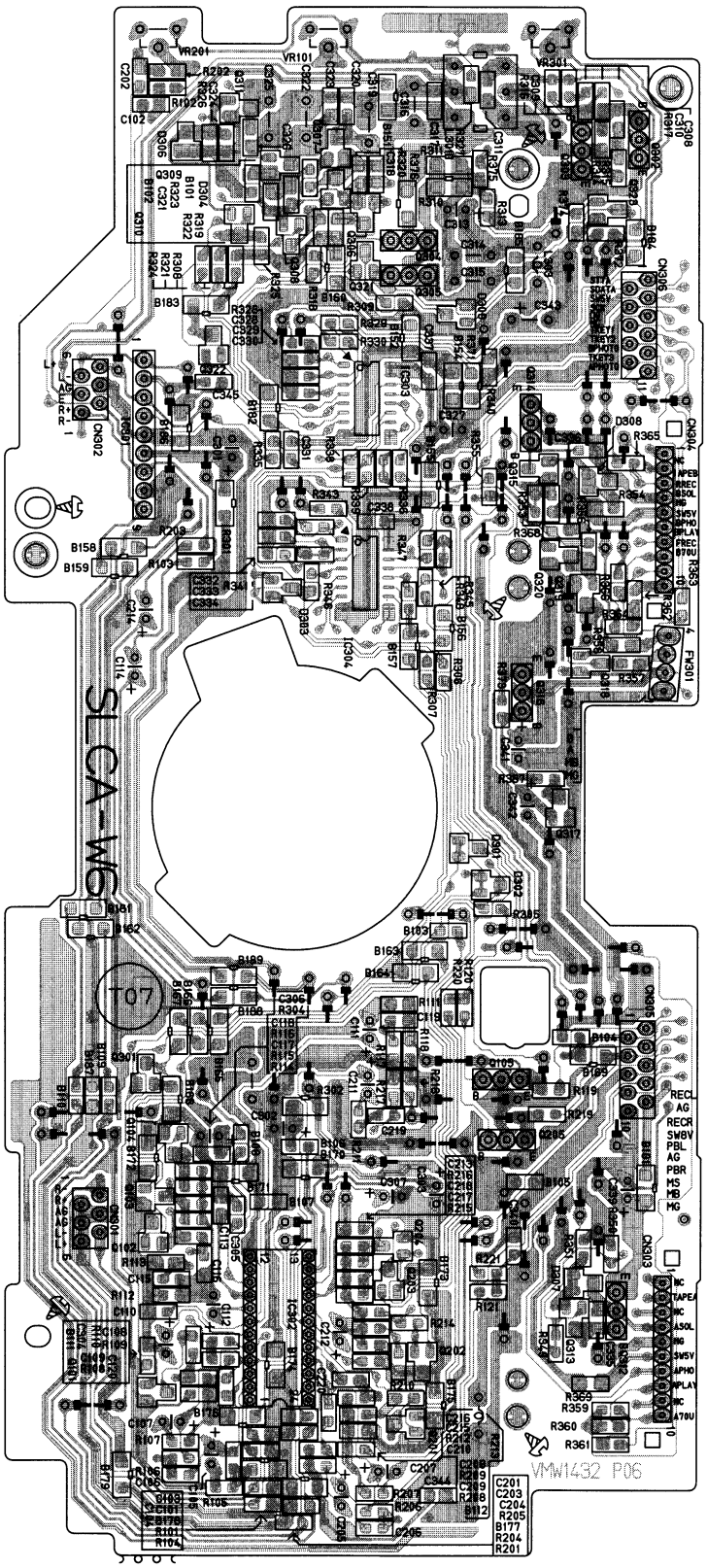
## ■ CD Tray section switch board




## ■ Cam switch board



## ■Cassette mechanism amplifier board



# PARTS LIST

## [ MX-J10 ]

* All printed circuit boards and its assemblies are not available as service parts.

Areas suffix

B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe
EV ---------- Eastern Europe
EE --------- Russian Federation

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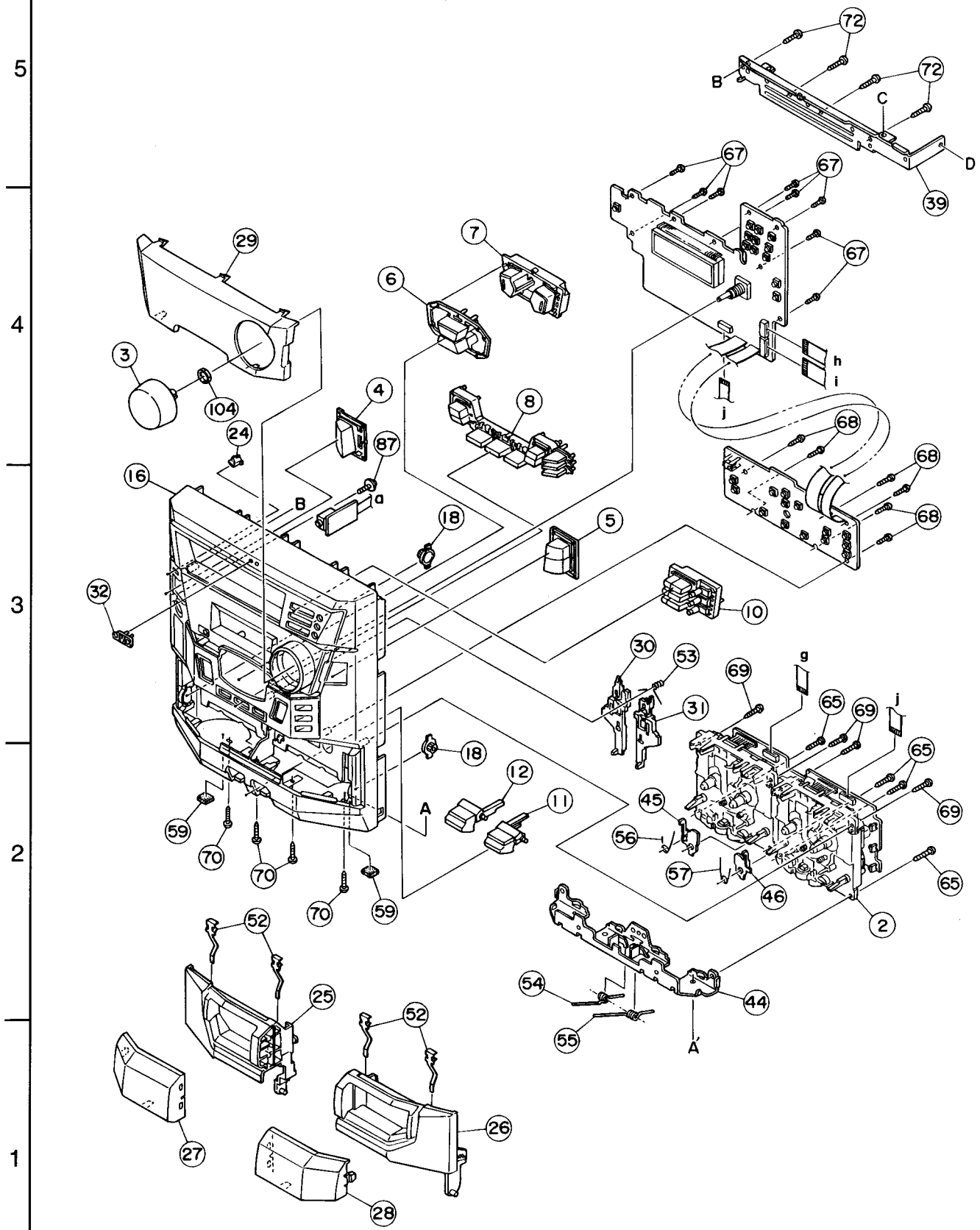
CD changer mechanism assembly and parts list ---------- 3-8
CD mechanism assembly and parts list ---------- 3-10
Electrical parts list ---------- 3-11
Packing materials and accessories parts list ---------- 3-24

# Exploded view of general assembly and parts list(1/2)

Block No. M 1 M M



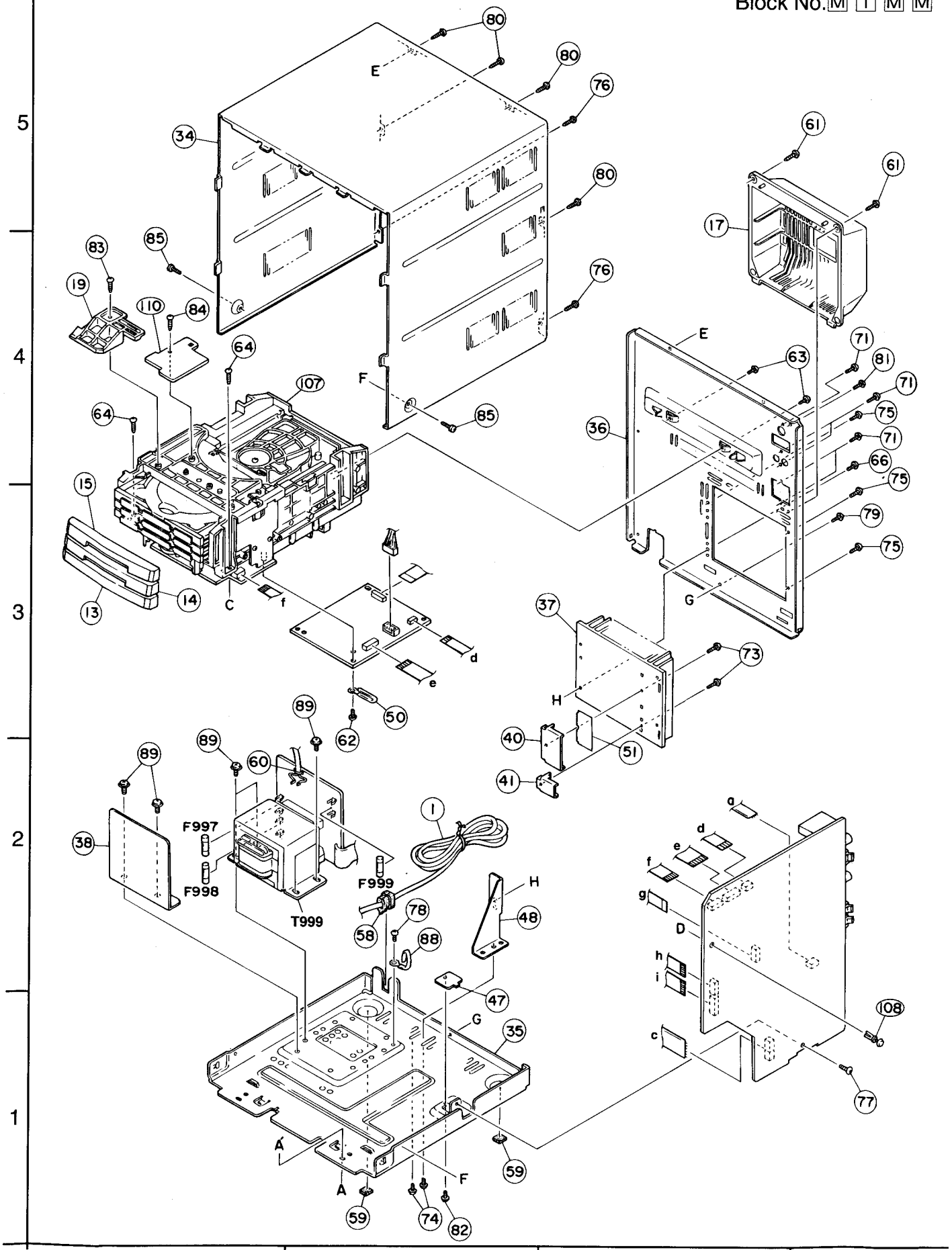
## ■parts list 1/2 (General assembly)

BLOCK NO. M1MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | 2 | ---------- | DECK MECHA | | 1 | | |
| | 3 | GJ460170130101 | KNOB VOLUME | | 1 | | |
| | 4 | GJ460170200103 | BUTTON POWER | | 1 | | |
| | 5 | GJ460170150101 | BUTTON | BASS/SOUND | 1 | | |
| | 6 | MXJ10K-BUTTON-A | BUTTON | MODE A | 1 | | |
| | 7 | MXJ10K-BUTTON-B | BUTTON | MODE B | 1 | | |
| | 8 | GJ460170120101 | BUTTON CONTROL | | 1 | | |
| | 10 | GJ460170080101 | BUTTON EJECT | CD | 1 | | |
| | 11 | GJ460170060101 | BUTTON EJECT L | CASS | 1 | | |
| | 12 | GJ460170070101 | BUTTON EJECT R | CASS | 1 | | |
| | 16 | GJ460170010101 | FRONT CABINET | | 1 | | |
| | 18 | GJ751000030101 | DAMPER GEAR | VYH7779 | 2 | | |
| | 24 | GJ460170090101 | INDICATOR | POWER | 1 | | |
| | 25 | GJ460170160101 | DOOR CASS L | | 1 | | |
| | 26 | GJ460170170101 | DOOR CASS R | | 1 | | |
| | 27 | GJ460170180101 | LENS CASS L | | 1 | | |
| | 28 | GJ460170190101 | LENS CASS R | | 1 | | |
| | 29 | GJ460170020101 | LENS DISPLAY | | 1 | | |
| | 30 | GJ460170310101 | EJECT LEVER L | | 1 | | |
| | 31 | GJ460170320101 | EJECT LEVER R | | 1 | | |
| | 32 | GJ460170330101 | LOGO JVC | | 1 | | |
| | 39 | GJ560170010101 | STAY BRACKET | CD | 1 | | |
| | 44 | GJ560170050101 | BRACKET HOLDER | CASS | 1 | | |
| | 45 | GJ560170180101 | BRACKET A | FMKL4012 | 1 | | |
| | 46 | GJ560170190101 | BRACKET B | FMKL4013 | 1 | | |
| | 52 | GJ711001200101 | SPRING | TAPE | 4 | | |
| | 53 | GJ711001210101 | SPRING | EJECT LEVER | 1 | | |
| | 54 | GJ711001220101 | SPRING | CASS DOOR L | 1 | | |
| | 55 | GJ711001230101 | SPRING | CASS DOOR R | 1 | | |
| | 56 | GJ711001240101 | SPRING A | EJECT SAFETY | 1 | | |
| | 57 | GJ711001250101 | SPRING B | EJECT SAFETY | 1 | | |
| | 59 | GJ763000320106 | FELT SHEET | | 2 | | |
| | 65 | GJ702244300812 | SCREW | HOLDER/DECK | 4 | | |
| | 67 | GJ702244260812 | SCREW | PCB/PANEL | 8 | | |
| | 68 | GJ702244260812 | SCREW | PCB/PANEL | 6 | | |
| | 69 | GJ702244301012 | SCREW | DECK/PANEL | 4 | | |
| | 70 | GJ702244301012 | SCREW | HOLDER/PANEL | 4 | | |
| | 72 | GJ702244301012 | SCREW | STAY BRACKET | 4 | | |
| | 87 | E65923-003 | TAPPING SCREW | JACK/PANEL | 1 | | |
| | 104 | ---------- | NUT(VOL.KNOB) | ACCESSORIES | 1 | | |

# Exploded view of general assembly and parts list(2/2)

Block No. M 1 M M



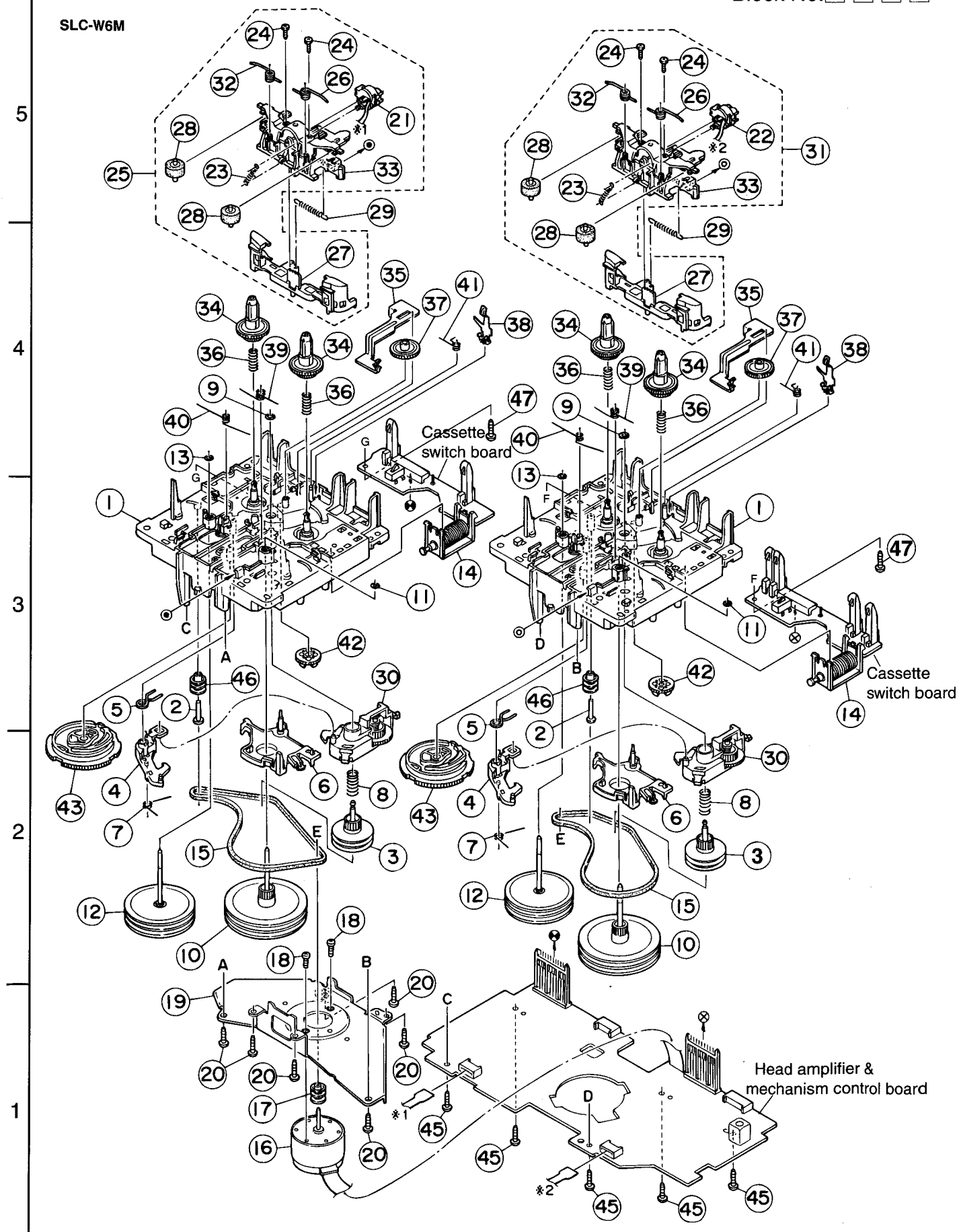
## ■parts list 2/2 (General assembly)

BLOCK NO. M1MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| ⚠ | 1 | GJ350432052119 | POWER CORD | | 1 | B | |
| ⚠ | | QMP3900-200L | POWER CORD | | 1 | E,EE,EN,EV | |
| | 13 | GJ460170030101 | COVER CD TRAY A | | 1 | | |
| | 14 | GJ460170040101 | COVER CD TRAY B | | 1 | | |
| | 15 | GJ460170050101 | COVER CD TRAY C | | 1 | | |
| | 17 | GJ460170280101 | HEAT SINK COVER | | 1 | | |
| | 19 | GJ460170340101 | BRACKET | DISC STOP | 1 | | |
| | 34 | 560170080101/S/ | METAL COVER | | 1 | | |
| | 35 | GJ560170090101 | BOTTOM CASE | | 1 | | |
| | 36 | GJ560170070101 | CASE REAR | | 1 | | |
| | 37 | GJ780000170100 | HEAT SINK | | 1 | | |
| | 38 | GJ560170060101 | SHIELD TRANS | FMMA4003 | 1 | | |
| | 40 | GJ560170100101 | BRACKET A | HEATSINK | 1 | | |
| | 41 | GJ560170110101 | BRACKET B | HEATSINK | 1 | | |
| | 47 | GJ560170040101 | BRACKET PCB | | 1 | | |
| | 48 | GJ560170200101 | BRACKET | HEAT SINK | 1 | | |
| | 50 | GJ370339701 | CLAMP | | 1 | | |
| | 51 | GJ735000040003 | MICA | HEAT SINK | 1 | | |
| ⚠ | 58 | GJ796000030000 | CORD BUSHING | | 1 | | |
| | 59 | GJ763000320106 | FELT SPACER | | 2 | | |
| | 60 | GJ732000010101 | POWERCORD BAND | POWER CORD | 1 | | |
| | 61 | GJ702244300812 | SCREW | HEAT SINK COVER | 2 | | |
| | 62 | GJ702244300812 | SCREW | PCB/CHANGER | 1 | | |
| | 63 | GJ702244300812 | SCREW | CHANGER/REAR | 2 | | |
| | 64 | GJ702244300812 | SCREW | STAY | 2 | | |
| | 66 | GJ702244300812 | SCREW | H.S BKT./R.CASE | 1 | | |
| | 71 | GJ702244301012 | SCREW | JACK | 5 | | |
| | 73 | GJ702244301412 | SCREW | IC/HEAT SINK | 2 | | |
| | 74 | GJ702244300612 | SCREW | HEAT | 2 | | |
| | 75 | GJ702244300612 | SCREW | HEAT SINK/REAR | 3 | | |
| | 76 | GJ702244300612 | SCREW | TOP/REAR/BOTTOM | 2 | | |
| | 77 | GJ702244300612 | SCREW | BKT | 1 | | |
| | 78 | GJ702244300612 | SCREW | WIRE CLAMP | 1 | | |
| | 79 | GJ702244300612 | SCREW | REAR/BOTTOM CAS | 1 | | |
| | 80 | GJ702244300612 | SCREW | TOP/REAR CASE | 4 | | |
| | 81 | GJ702244300612 | SCREW | PCB BKT/REAR | 1 | | |
| | 82 | GJ702244300612 | SCREW | BOTTOM CASE/PCB | 1 | | |
| | 83 | GJ702244300612 | SCREW | DISC STOP | 1 | | |
| | 84 | GJ702244300612 | SCREW | PCB/CHANGER | 1 | | |
| | 85 | GJ702244300652 | SCREW | TOP/BOTTOM CASE | 2 | | |
| | 88 | GJ727450540503 | SOLDER | | 1 | | |
| | 89 | GJ702264400612 | SCREW | X'FORMER | 6 | | |
| | 107 | ---------- | CD CHANGER | | 1 | | |
| | 108 | GJ421038001 | RIVET/SNAP | | 1 | | |
| | 110 | ---------- | PC BOARD | NO SERVICE | 1 | | |
| ⚠ | F 997 | QMF51E2-1R25 | FUSE | | 1 | | |
| ⚠ | F 998 | QMF51E2-1R25 | FUSE | | 1 | | |
| ⚠ | F 999 | QMF51E2-R80-J1 | FUSE | | 1 | | |
| ⚠ | T 999 | FMTP66M8-65A | POWER TRANS | | 1 | | |

# Cassette mechanism assembly and parts list

Block No. M 2 M M



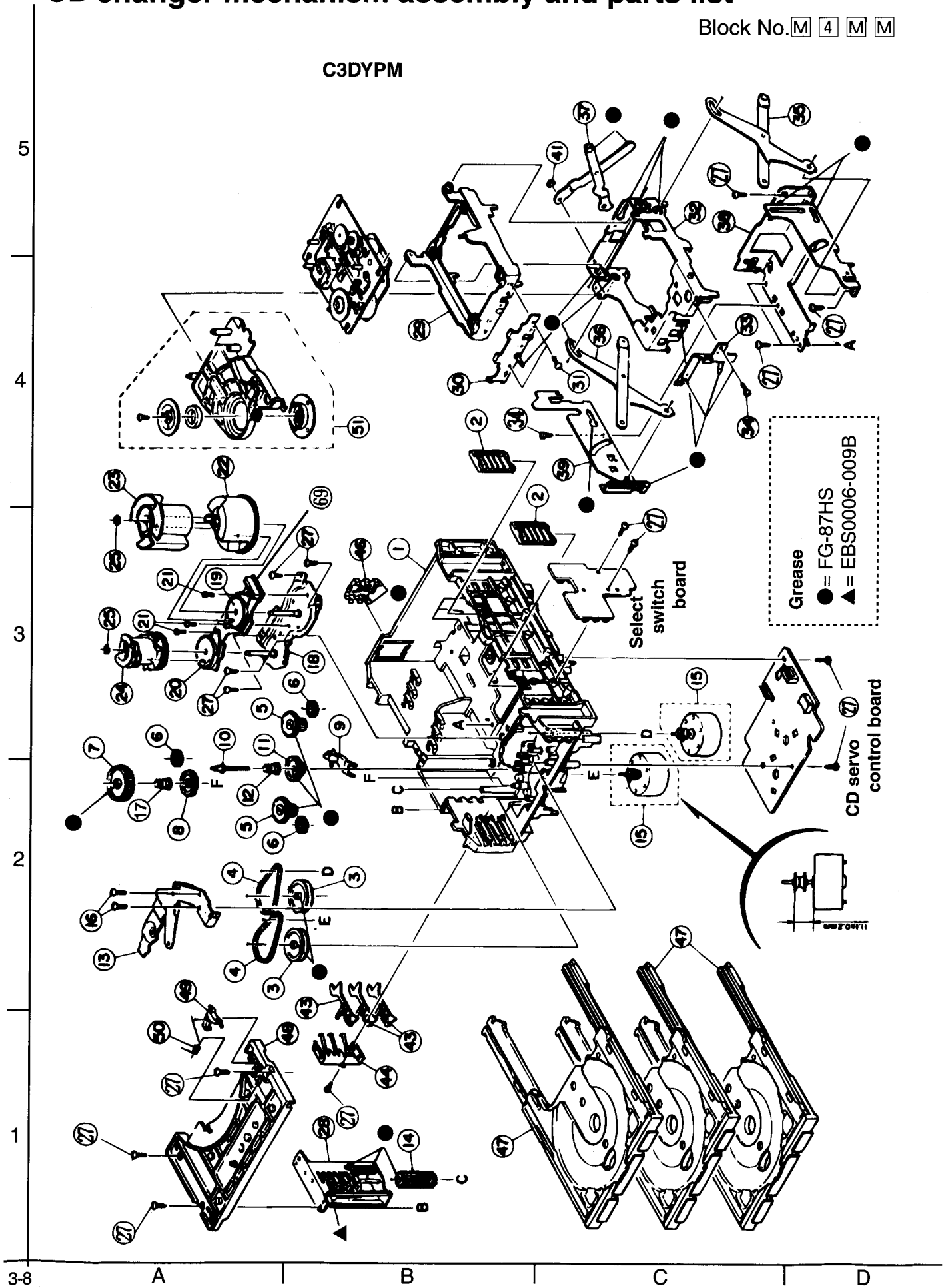
## ■ parts list (Cassette mechanism)

BLOCK NO. M2MM

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | 1 | VKS1165-00H | CHASSIS B.ASS'Y | | 2 | | |
| | 2 | VKH5786-002 | SHAFT | | 2 | | |
| | 3 | VKS5603-00D | MAIN PULLEY ASY | | 2 | | |
| | 4 | VKS3785-001MM | FR ARM | | 2 | | |
| | 5 | VKW5284-002 | SWING SPRING | | 2 | | |
| | 6 | VKS2278-003 | TRIGGER ARM | | 2 | | |
| | 7 | VKW5301-001 | FR SPRING | | 2 | | |
| | 8 | VKW5266-001 | ELEVATOR SPRING | | 2 | | |
| | 9 | WDL214025 | WASHER | | 2 | | |
| | 10 | VKF3205-00B | F.WHEEL ASSY(R) | | 2 | | |
| | 11 | WDL183425 | SLIT WASHER | | 2 | | |
| | 12 | VKF3207-00B | F.WHEEL ASSY(L) | | 2 | | |
| | 13 | WDL173525-6 | SLIT WASHER | | 2 | | |
| | 14 | VKZ3174-00A | DC SOLENOID | | 2 | | |
| | 15 | VKB3000-182 | CAPSTAN BELT(B) | | 2 | | |
| | 16 | MSI-5U2LWA | D.C.MOTOR ASS'Y | | 1 | | |
| | 17 | VKR4761-001 | MOTOR PULLEY | | 1 | | |
| | 18 | QYSPSP2604Z | SCREW | | 2 | | |
| | 19 | VKM3907-001 | JOINT BRACKET | | 1 | | |
| | 20 | QYSBSF2608Z | T.SCREW | | 6 | | |
| | 21 | LV41090-001A | P.B.HEAD | | 1 | | |
| | 22 | LV41089-001A | R/P&E HEAD | | 1 | | |
| | 23 | VKW5302-001 | HEAD SPRING | | 2 | | |
| | 24 | VKZ4730-001 | SPECIAL SCREW | | 4 | | |
| | 25 | VKS2279-00D | HEAD MOUNT ASSY | | 1 | | |
| | 26 | VKW5299-002 | PIN ROL.SP.(R) | | 2 | | |
| | 27 | VKS2277-005 | DIRECTION LEVER | | 2 | | |
| | 28 | VKP4233-00A | PINCH ROL. ASSY | | 4 | | |
| | 29 | VKW5285-001 | RETURN SPRING | | 2 | | |
| | 30 | VKS3786-00G | CLUTCH ASS'Y | | 2 | | |
| | 31 | VKS2275-00D | HEAD MOUNT ASSY | | 1 | | |
| | 32 | VKW5300-002 | PIN ROL.SP.(L) | | 2 | | |
| | 33 | VKS1167-001 | HEAD MOUNT BASE | | 2 | | |
| | 34 | VKS2274-002 | REEL GEAR | | 4 | | |
| | 35 | VKM3906-003 | PLAY SW LEVER | | 2 | | |
| | 36 | VKW5286-002 | B.T. SPRING | | 4 | | |
| | 37 | VKS5559-001 | PLAY IDLE GEAR | | 2 | | |
| | 38 | VKY3149-002 | CASSETTE SP. | | 2 | | |
| | 39 | VKW5279-001 | HEAD BASE SP(R) | | 2 | | |
| | 40 | VKW5280-001 | HEAD BASE SP(L) | | 2 | | |
| | 41 | VKW5296-001 | EARTH SPRING | | 2 | | |
| | 42 | VKS5597-00A | BLIND | | 2 | | |
| | 43 | VKS1166-003 | CONTROL CAM | | 2 | | |
| | 45 | QYSBSF2608Z | T.SCREW | FOR P.W.B. | 5 | | |
| | 46 | VKR4749-002 | IDLE PULLEY | | 2 | | |
| | 47 | QYSBSF2006Z | SCREW | | 2 | | |

# CD changer mechanism assembly and parts list

Block No. M 4 M M



## ■ parts list (CD changer mechanism)

BLOCK NO. M4MM□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | 1 | VKS1144-003 | CHASSIS | | 1 | | |
| | 2 | VKS3698-003 | TRAY GUIDE | | 2 | | |
| | 3 | VKS5532-003 | PULLEY GEAR | | 2 | | |
| | 4 | VKB3000-164 | BELT | | 2 | | |
| | 5 | VKS5505-003 | GEAR B | | 2 | | |
| | 6 | VKS5506-002 | GEAR C | | 3 | | |
| | 7 | VKS5507-002 | CROSS GEAR U | | 1 | | |
| | 8 | VKS5508-002 | CROSS GEAR L | | 1 | | |
| | 9 | VKS5510-003 | SELECT LEVER | | 1 | | |
| | 10 | VKH5769-001 | S.G.SHAFT | | 1 | | |
| | 11 | VKS5511-002 | SELECT GEAR | | 1 | | |
| | 12 | VKW5155-003 | COMP.SPRING | FOR SELECT GEAR | 1 | | |
| | 13 | VKM3846-002 | GEAR BRACKET | | 1 | | |
| | 14 | VKS5509-002MM | CYLINDER GEAR | | 1 | | |
| | 15 | MSN5D257A-SA2 | D.C.MOTOR ASS'Y | | 2 | | |
| | 16 | QYSPSPD2616Z | SCREW | | 2 | | |
| | 17 | LV40612-001A | COMP.SPRING | | 1 | | |
| | 18 | VKM3825-00AMM | C.G.BASE ASS'Y | | 1 | | |
| | 19 | VKZ3172-00ASS | CAM SW. R ASS'Y | | 1 | | |
| | 20 | VKZ3173-00ASS | CAM SW. L ASS'Y | | 1 | | |
| | 21 | QYSPST2606Z | SCREW | FOR CAM SW. | 3 | | |
| | 22 | VKS2263-002MM | CAM R1 | | 1 | | |
| | 23 | VKS2264-002MM | CAM R2 | | 1 | | |
| | 24 | VKS2265-002MM | CAM GEAR L | | 1 | | |
| | 25 | WDL31605OMM | SLIT WASHER | | 2 | | |
| | 27 | QYSBSF2608Z | T.SCREW | | 16 | | |
| | 28 | VKS3702-00FMM | DRIVE UNIT | | 1 | | |
| | 29 | VKS2247-004 | MECHA HOLDER A | | 1 | | |
| | 30 | VKL7767-00B | BRACKET ASS'Y | | 1 | | |
| | 31 | QYSBSF2606Z | SCREW | FOR BRACKET | 2 | | |
| | 32 | VKM3860-00A | M.HOLDER B AS'Y | | 1 | | |
| | 33 | VKL7802-00C | M.HOLDER C AS'Y | | 1 | | |
| | 34 | QYSDST2604Z | SCREW | | 3 | | |
| | 35 | VKL7810-00A | LIFTER ASS'Y R | | 1 | | |
| | 36 | VKL7811-00A | LIFTER ASS'Y L | | 1 | | |
| | 37 | VKL7812-00A | LIFTER ASS'Y H | | 1 | | |
| | 38 | VKL2732-002 | LIFTER BASE | | 1 | | |
| | 39 | VKM3823-001 | LIFTER BRACKET | | 1 | | |
| | 41 | WDL266035-2 | SLIT WASHER | | 1 | | |
| | 43 | VKS5514-002MM | LOCK LEVER | | 3 | | |
| | 44 | VKY3133-002MM | RETURN SPRING | | 1 | | |
| | 46 | VKY3134-003MM | CLICK SPRING | | 1 | | |
| | 47 | VKS2252-00E | TRAY ASS'Y | | 3 | | |
| | 48 | VKS2250-003 | TOP BRACKET | | 1 | | |
| | 49 | VKS5515-002 | S.TRAY STOPPER | | 1 | | |
| | 50 | VKW5156-004 | TORSION SPRING | | 1 | | |
| | 51 | VKS3703-00GMMKP | CLAMPER ASSY | | 1 | | |
| | 69 | QGB2012J1-10 | CONNECTOR | | 1 | | |

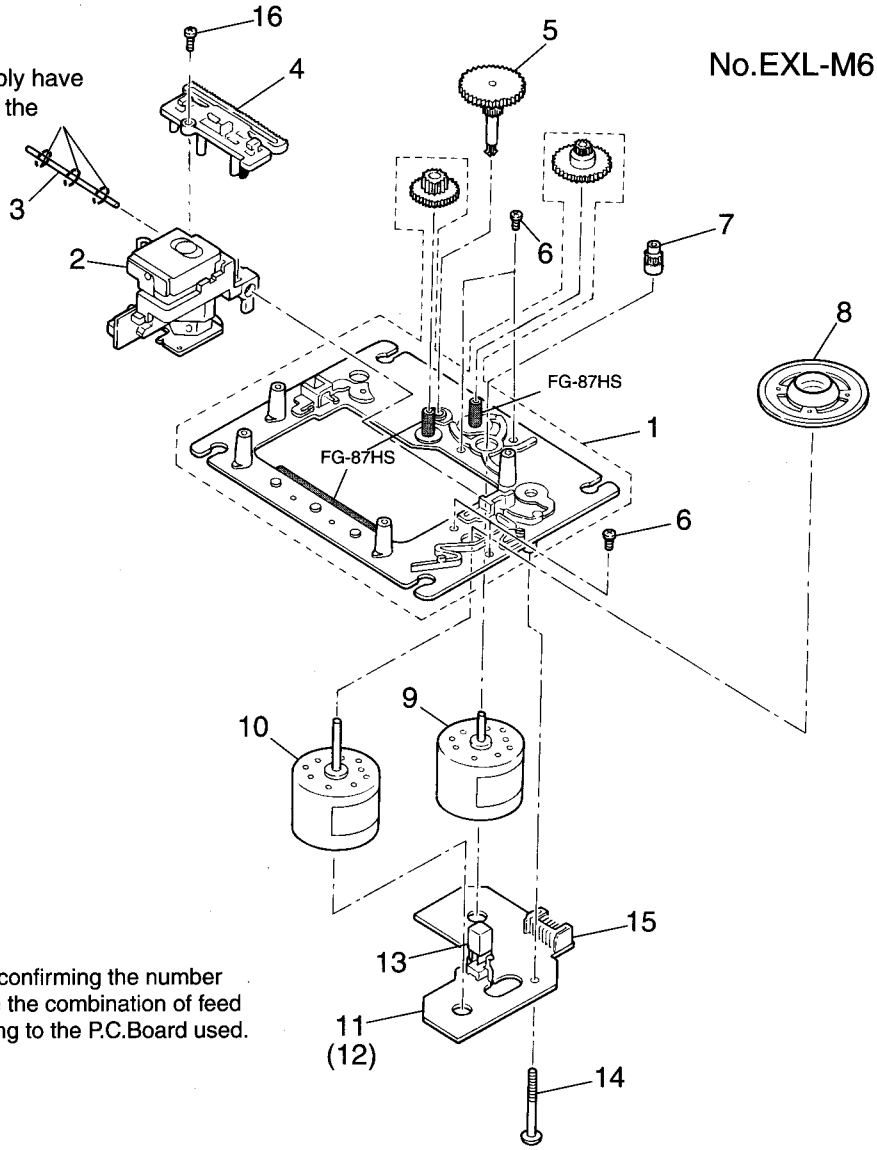
# CD mechanism assembly and parts list

Block No.M 3 M M

No.EXL-M6

## ■Grease point

FG-87HS
(Grease to apply have to be alittle for the exchange)




NOTE
Please order motor after confirming the number of the P.C.Board because the combination of feed motor is different according to the P.C.Board used.

## ■ Parts List(CD mechanism assembly)

| ⚠ | Item | Parts Number | Parts Name | Q'ty | Description | Area |
|---|---|---|---|---|---|---|
| | 1 | EPB-002PK | MECHA. BASE ASSY | 1 | | |
| | 2 | OPTIMA-150S | OPTICAL PICK UP | 1 | | |
| | 3 | E407782-001 | CD SHAFT | 1 | | |
| | 4 | E307746-001 | CD RACK | 1 | | |
| | 5 | EPB-003A | MECHA GEAR | 1 | | |
| | 6 | SDSP2003N | SCREW | 4 | | |
| | 7 | E406750-001 | PINION GEAR | 1 | | |
| | 8 | E75807-302 | TURN TABLE | 1 | Use the 1CD | |
| | | EPB309173A | TURN TABLE | 1 | Use the 3CD | |
| | 9 | E406784-001 | FEED MOTOR | 1 | Use the No.11 P.C.Board | |
| | | MDN-4RA3ETA-1 | FEED MOTOR | 1 | Use the No.12 P.C.Board | |
| | 10 | E406783-001 | SPINDLE MOTOR | 1 | | |
| | 11 | EMW10190-001(S) | P.C.BOARD | 1 | | |
| | 12 | EMW10190-221(S) | P.C.BOARD | 1 | | |
| | 13 | ESB1100-005 | LEAF SWITCH | 1 | | |
| | 14 | E75832-001 | SCREW | 1 | | |
| | 15 | EMV5109-006B | CONN. TERMINAL | 1 | | |
| | 16 | SDSF2006Z | SCREW | 1 | | |

## ■ System control board

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 461 | QET41CM-476 | E CAPACITOR | 16V 47UF | |
| | C 462 | QDGB1HK-102Y | C CAPACITOR | 50V 1000PF | |
| | C 701 | QET41HM-226 | E CAPACITOR | 50V 22UF | |
| | C 702 | QET41HM-226 | E CAPACITOR | 50V 22UF | |
| | C 703 | QFVJ1HJ-124Z | TF CAPACITOR | 50V 0.12UF | |
| | C 704 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 705 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 708 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 709 | QDXGB1HK-102Y | CAPACITOR | 50V 1000PF | |
| | C 714 | QDXGB1HK-102Y | CAPACITOR | 50V 1000PF | |
| | C 715 | QET41CM-106 | E CAPACITOR | 16V 10UF | |
| | C 716 | QET41HM-105 | E CAPACITOR | 50V 1UF | |
| | C 717 | QET41AM-227 | E CAPACITOR | 10V 220UF | |
| | C 718 | GJ112422591 | CAPACITOR | 100UF 20% 6.3V | |
| | C 719 | QDXGB1HK-102Y | CAPACITOR | 50V 1000PF | |
| | C 720 | QSCB1HJ-220Y | C CAPACITOR | 50V 22PF | |
| | C 721 | QSCB1HJ-220Y | C CAPACITOR | 50V 22PF | |
| | C 722 | QDXGB1HK-102Y | CAPACITOR | 50V 1000PF | |
| | C 723 | QCS11HJ-390 | C CAPACITOR | 50V 39PF | |
| | C 724 | QCS11HJ-180 | C CAPACITOR | 50V 18PF | |
| | C 725 | QSCB1HJ-220Y | C CAPACITOR | 50V 22PF | |
| | C 726 | QCS11HJ-390 | C CAPACITOR | 50V 39PF | |
| | C 727 | QDXGB1HK-102Y | CAPACITOR | 50V 1000PF | |
| | C 730 | QDXGB1HK-102Y | CAPACITOR | 50V 1000PF | |
| | C 731 | QCBB1HK-101Y | C CAPACITOR | 50V 100PF | |
| | C 732 | QET41AM-227 | E CAPACITOR | 10V 220UF | |
| | C 733 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 734 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 735 | GJ270124760310 | CAPACITOR | 16V 47UF | |
| | C 737 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 738 | QDXGB1HK-102Y | CAPACITOR | 50V 1000PF | |
| | C 739 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 740 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 801 | GJ116228221 | C.CAPACITOR | 50V 100PF | |
| | C 802 | GJ116228221 | C.CAPACITOR | 50V 100PF | |
| | CN700 | GJ340021110108 | CONN.TERMINAL | 52044-1145 | |
| | CN701 | GJ340021130108 | CONN.TERMINAL | 52044-1345 | |
| | CN702 | GJ340021170108 | CONN.TERMINAL | 52044-1745 | |
| | D 411 | BR3822K | DIODE | GJ374542012111 | |
| | D 412 | SLR-342MCT32 | LED | GREEN | |
| | D 413 | SLR-342MCT32 | LED | GREEN | |
| | D 414 | SLR-342MCT32 | LED | GREEN | |
| | D 415 | SLR-342MCT32 | LED | GREEN | |
| | D 701 | 1SS133T-77 | SI DIODE | | |
| | D 702 | 1SS133T-77 | SI DIODE | | |
| | D 703 | 1SS133T-77 | SI DIODE | | |
| | D 704 | 1SS133T-77 | SI DIODE | | |
| | D 705 | MTZJ5.1A | Z.DIODE | MTZJ5.1A-T77 | |
| | D 706 | 1SS133T-77 | SI DIODE | | |
| | FL701 | QLF0047-001 | FL TUBE | | |
| | FW700 | GJ353110120110 | CABLE FFC | TO DECK MECHANI | |
| | FW701 | GJ353040100107 | CABLE FLAT | | |
| | FW702 | GJ353060100107 | CABLE FLAT | | |
| | FW851 | GJ353040350107 | FLAT CABLE | TO MAIN BD CN30 | |
| | FW999 | GJ353090190107 | CABLE FLAT | 9PINS | |

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | IC404 | GPIU281X | IC | 3-1301-054-10-0 | |
| | IC701 | UPD78044FGF-067 | IC | | |
| | J 850 | GJ342010160111 | PHONE JACK | | |
| | JS701 | QSW0538-001 | ROTARY ENCODER | VR EC16B243040H | |
| | L 701 | GJ241134701301 | F.INDUCTOR | 47UH | |
| | L 702 | GJ241134701301 | F.INDUCTOR | 47UH | |
| | L 703 | GJ141050931 | INDUCTOR | 10UH 10% | |
| | L 704 | GJ141032431 | INDUCTOR | 4.7UH 10% | |
| | L 705 | GJ141032431 | INDUCTOR | 4.7UH 10% | |
| | L 706 | GJ141050931 | INDUCTOR | 10UH 10% | |
| | L 707 | GJ141050931 | INDUCTOR | 10UH 10% | |
| | L 708 | GJ141033031 | INDUCTOR | 22UH 10% | |
| | L 709 | GJ141039721 | FERRITE BEAD IN | 1.1UH | |
| | L 843 | QUY150-050Y | BUS WIRE | GJ141033231 | |
| | L 844 | QUY150-050Y | BUS WIRE | GJ141033231 | |
| | L 845 | GJ141039721 | FERRITE BEAD IN | 1.1UH | |
| | Q 470 | DTC114ESTP | TRANSISTOR | GJ872902967 | |
| | Q 471 | DTC114ESTP | TRANSISTOR | GJ872902967 | |
| | Q 472 | DTA114ES | TRANSISTOR | GJ872902921 | |
| | Q 473 | DTA114ESA-TP | TRANSISTOR | 8-729-029-21 | |
| | Q 474 | DTC114ESTP | TRANSISTOR | GJ872902967 | |
| | Q 703 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | Q 704 | DTC114TSTP | TRANSISTOR | DTC114TS | |
| | Q 705 | 2SA1175/F/ | TRANSISTOR | 2SA1175/F | |
| | Q 706 | 2SC2668(O) | TRANSISTOR | 2SC2668/O-T | |
| | Q 707 | 2SC2668(O) | TRANSISTOR | 2SC2668/O-T | |
| | Q 708 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | Q 709 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | Q 711 | DTC114ESTP | TRANSISTOR | DTC114ESA | |
| | Q 771 | 2SC945QP | TRANSISTOR | 2SC945/QP | |
| | Q 772 | 2SC945QP | TRANSISTOR | 2SC945/QP | |
| | Q 773 | 2SC945QP | TRANSISTOR | 2SC945/QP | |
| | R 470 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 471 | QRE141J-122Y | C RESISTOR | 1/4W 1.2K | |
| | R 472 | QRE141J-152Y | C RESISTOR | 1/4W 1.5K | |
| | R 473 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 474 | QRE141J-272Y | C RESISTOR | 1/4W 2.7K | |
| | R 475 | QRE141J-293Y | C RESISTOR | 1/4W 3.9K | |
| | R 476 | QRE141J-562Y | C RESISTOR | 1/4W 5.6K | |
| | R 477 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 478 | QRE141J-183Y | C RESISTOR | 1/4W 18K | |
| | R 479 | QRE141J-473Y | C RESISTOR | 1/4W 47K | B,E,EN |
| | R 480 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 481 | QRE141J-183Y | C RESISTOR | 1/4W 18K | |
| | R 482 | QRE141J-473Y | C RESISTOR | 1/4W 47K | |
| | R 484 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 486 | QRE141J-271Y | C RESISTOR | 1/4W 270 | |
| | R 487 | QRE141J-271Y | C RESISTOR | 1/4W 270 | |
| | R 488 | GJ250088202103 | RES CF | 1/4W 82 | |
| | R 489 | GJ250088202103 | RES CF | 1/4W 82 | |
| | R 690 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 691 | QRE141J-122Y | C RESISTOR | 1/4W 1.2K | |
| | R 692 | QRE141J-152Y | C RESISTOR | 1/4W 1.5K | |
| | R 693 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 694 | QRE141J-272Y | C RESISTOR | 1/4W 2.7K | |

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 695 | QRE141J-392Y | C RESISTOR | 1/4W 3.9K | |
| | R 696 | QRE141J-562Y | C RESISTOR | 1/4W 5.6K | |
| | R 697 | QRE141J-183Y | C RESISTOR | 1/4W 18K | EE,EV |
| | R 698 | QRE141J-753Y | C RESISTOR | 1/4W 75K | B,E,EN |
| | R 698 | QRE141J-103Y | C RESISTOR | 1/4W 10K | EE,EV |
| | R 700 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 701 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 702 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 703 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 704 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 705 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 707 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 708 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 709 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 710 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 711 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 712 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 713 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 714 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 715 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 716 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 717 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 718 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 719 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 720 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 721 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 722 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 723 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 724 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 725 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 726 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 727 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 728 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 729 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 730 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 731 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 732 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 733 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 736 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 737 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 738 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | R 739 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 740 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | R 741 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 742 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | R 743 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 744 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 745 | QRE141J-473Y | C RESISTOR | 1/4W 47K | |
| | R 747 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 748 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 750 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 751 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 752 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 753 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 754 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 755 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 756 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 757 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 758 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 761 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 762 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 764 | QRE141J-273Y | C RESISTOR | 1/4W 27K | |
| | R 765 | GJ250081002103 | RES CF | 1/4W 10 | |
| | R 766 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 767 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 768 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 769 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 770 | QRE141J-223Y | C RESISTOR | 1/4W 22K | |
| | R 771 | QRE141J-223Y | C RESISTOR | 1/4W 22K | |
| | R 772 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 773 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 774 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 775 | QRE141J-330Y | C RESISTOR | 1/4W 330 | |
| | R 776 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 777 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 778 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | R 779 | QRE141J-105Y | C RESISTOR | 1/4 1M | |
| | R 780 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 781 | QRE141J-822Y | C RESISTOR | 1/4W 8.2K | |
| | R 782 | QRE141J-822Y | C RESISTOR | 1/4W 8.2K | |
| | R 783 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 784 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 785 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 786 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 787 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 788 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 789 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 790 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 791 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 792 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 793 | QRE141J-122Y | C RESISTOR | 1/4W 1.2K | |
| | R 794 | QRE141J-152Y | C RESISTOR | 1/4W 1.5K | |
| | R 795 | QRE141J-222Y | C RESISTOR | 1/4 2.2K | |
| | R 796 | QRE141J-272Y | C RESISTOR | 1/4W 2.7K | |
| | R 797 | QRE141J-392Y | C RESISTOR | 1/4W 3.9K | |
| | R 798 | QRE141J-562Y | C RESISTOR | 1/4W 5.6K | |
| | R 800 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 804 | QRE141J-823Y | C RESISTOR | 1/4W 82K | |
| | R 805 | QRE141J-823Y | C RESISTOR | 1/4W 82K | |
| | R 806 | QRE141J-394Y | C RESISTOR | 1/4W 390K | |
| | R 807 | QRE141J-394Y | C RESISTOR | 1/4W 390K | |
| | R 808 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 809 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 880 | QRE141J-330Y | C RESISTOR | 1/4W 330 | |
| | RA701 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA702 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA703 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA704 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA705 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA706 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |

## ■ Amplifier board

BLOCK NO. 01

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | RA707 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA708 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA709 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA710 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA711 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA712 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA713 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA714 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA715 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA716 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA717 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA718 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA719 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA720 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA721 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA722 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA723 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA724 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA725 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA726 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | RA727 | QRE141J-224Y | C RESISTOR | 1/4W 220K | |
| | S 406 | SOA-123HS | TACT SWITCH | | |
| | S 407 | SOA-123HS | TACT SWITCH | | |
| | S 408 | SOA-123HS | TACT SWITCH | | |
| | S 409 | SOA-123HS | TACT SWITCH | | |
| | S 414 | SOA-123HS | TACT SWITCH | | |
| | S 415 | SOA-123HS | TACT SWITCH | | |
| | S 416 | SOA-123HS | TACT SWITCH | | |
| | S 417 | SOA-123HS | TACT SWITCH | | |
| | S 418 | SOA-123HS | TACT SWITCH | | |
| | S 422 | SOA-123HS | TACT SWITCH | | |
| | S 423 | SOA-123HS | TACT SWITCH | | |
| | S 424 | SOA-123HS | TACT SWITCH | | |
| | S 425 | SOA-123HS | TACT SWITCH | | |
| | S 426 | SOA-123HS | TACT SWITCH | | |
| | S 700 | SOA-123HS | TACT SWITCH | | |
| | S 701 | SOA-123HS | TACT SWITCH | | |
| | S 702 | SOA-123HS | TACT SWITCH | | |
| | S 703 | SOA-123HS | TACT SWITCH | | |
| | S 704 | SOA-123HS | TACT SWITCH | | |
| | S 705 | SOA-123HS | TACT SWITCH | | |
| | S 706 | SOA-123HS | TACT SWITCH | | |
| | S 707 | SOA-123HS | TACT SWITCH | | |
| | S 708 | SOA-123HS | TACT SWITCH | | |
| | S 709 | SOA-123HS | TACT SWITCH | | |
| | S 714 | SOA-123HS | TACT SWITCH | | |
| | S 715 | SOA-123HS | TACT SWITCH | | |
| | X 701 | GJ361000230009 | CRYSTAL | 32.768KHZ | |
| | X 702 | M2Z4.19 | CERA LOCK | 4.19MHZ | |
| | Z 997 | QNG0003-001Z | FUSE CLIP | F997 | |
| | Z 998 | QNG0003-001Z | FUSE CLIP | F998 | |
| | Z 999 | QNG0003-001Z | FUSE CLIP | F999 | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 1 | GJ116415921 | C.CAPACITOR | 0.1MF 50V | |
| | C 2 | GJ116415921 | C.CAPACITOR | 0.1MF 50V | |
| | C 3 | QET41AM-107 | E CAPACITOR | 10V 100UF | |
| | C 4 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 5 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 6 | QDGB1HK-102Y | C CAPACITOR | 50V 1000PF | |
| | C 7 | QDCB1HJ-150Y | C CAPACITOR | 50V 15PF | |
| | C 8 | GJ111067121 | C.CAPACITOR | 47000PF 50V | |
| | C 9 | QDVB1EZ-223Y | C CAPACITOR | 25V 0.022UF | |
| | C 10 | GJ111067121 | C.CAPACITOR | 47000PF 50V | |
| | C 11 | QET41CM-107 | E CAPACITOR | 16V 100UF | |
| | C 12 | QET41AM-107 | E CAPACITOR | 10V 100UF | |
| | C 13 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 14 | QET41CM-106 | E CAPACITOR | 16V 10UF | |
| | C 15 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 16 | GJ111067121 | C.CAPACITOR | 47000PF 50V | |
| | C 17 | QCS11HJ-680 | C CAPACITOR | 50V 68PF | |
| | C 18 | QETC1EM-335Z | E CAPACITOR | 50V 3.3UF | |
| | C 19 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 20 | GJ116103591 | C CAPACITOR | 0.033UF 25V | |
| | C 21 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 22 | QETC1HM-104Z | E CAPACITOR | 50V 0.1UF | |
| | C 23 | QET41HM-474 | E CAPACITOR | 50V 0.47UF | |
| | C 25 | QFLC1HJ-393Z | M CAPACITOR | 50V 0.039UF | |
| | C 26 | QFLC1HJ-393Z | M CAPACITOR | 50V 0.039UF | |
| | C 27 | QET41HM-105 | E CAPACITOR | 50V 1UF | |
| | C 28 | QET41HM-105 | E CAPACITOR | 50V 1UF | |
| | C 29 | QCBB1HK-471Y | C CAPACITOR | 50V 470PF | |
| | C 30 | QCBB1HK-471Y | C CAPACITOR | 50V 470PF | |
| | C 31 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 33 | QDCB1HJ-120Y | C CAPACITOR | 50V 12PF | |
| | C 34 | QCS11HJ-150 | C CAPACITOR | 50V 15PF | |
| | C 35 | QCS11HJ-150 | C CAPACITOR | 50V 15PF | |
| | C 51 | QDCB1HJ-120Y | C CAPACITOR | 50V 12PF | |
| | C 52 | QDCB1HJ-120Y | C CAPACITOR | 50V 12PF | |
| | C 53 | QET41CM-476 | E CAPACITOR | 16V 47UF | |
| | C 54 | QFLC1HJ-105Z | M CAPACITOR | 50V 1UF | |
| | C 55 | QFLC1HJ-392Z | M CAPACITOR | 50V 0.0039UF | |
| | C 56 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 57 | QDGB1HK-102Y | C CAPACITOR | 50V 1000PF | |
| | C 58 | QDGB1HK-102Y | C CAPACITOR | 50V 1000PF | |
| | C 59 | QET41AM-107 | E CAPACITOR | 10V 100UF | |
| | C 60 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 61 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 62 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 63 | QCBB1HK-101Y | C CAPACITOR | 50V 100PF | |
| | C 65 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 66 | GJ116221521 | C CAPACITOR | 47PF 5% 50V | |
| | C 67 | GJ116222921 | C CAPACITOR | 5.6PF 10% 50V | |
| | C 68 | GJ116220521 | C CAPACITOR | 50V 18PF | |
| | C 69 | QCBB1HK-221Y | C CAPACITOR | 50V 220PF | |
| | C 70 | QCBB1HK-471Y | C CAPACITOR | 50V 470PF | |
| | C 101 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 102 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 103 | QCS11HJ-330 | C CAPACITOR | 50V 33PF | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 104 | QCS11HJ-220 | C CAPACITOR | 50V 22PF | |
| | C 105 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 106 | QET41EM-106 | E CAPACITOR | 25V 10UF | |
| | C 107 | QFVJ1HJ-563Z | M.M.CAP.IM | 50V 0.056UF | |
| | C 108 | QFVJ1HJ-563Z | M.M.CAP.IM | 50V 0.056UF | |
| | C 109 | QFLC1HJ-103Z | M CAPACITOR | 50V 0.01UF | |
| | C 110 | QCBB1HK-471Y | C CAPACITOR | 50V 470PF | |
| | C 111 | QFLC1HJ-104Z | M CAPACITOR | 50V 0.1UF | |
| | C 112 | QFLC1HJ-104Z | M CAPACITOR | 50V 0.1UF | |
| | C 113 | QET41AM-107 | E CAPACITOR | 10V 100UF | |
| | C 114 | QET41HM-105 | E CAPACITOR | 50V 1UF | |
| | C 115 | GJ110995391 | E.CAPACITOR | 2.2MF 20% 50V | |
| | C 116 | QCBB1HK-101Y | C CAPACITOR | 50V 100PF | |
| | C 117 | QCBB1HK-101Y | C CAPACITOR | 50V 100PF | |
| | C 118 | QET41HM-476 | E CAPACITOR | 50V 47UF | |
| | C 119 | QCS11HJ-100 | C CAPACITOR | 50V 10PF | |
| | C 120 | QFLC1HJ-153Z | M CAPACITOR | 50V 0.015UF | |
| | C 121 | QET41HM-226 | E CAPACITOR | 50V 22UF | |
| | C 122 | QFLC1HJ-104Z | M CAPACITOR | 50V 0.1UF | |
| | C 123 | QFLC1HJ-104Z | M CAPACITOR | 50V 0.1UF | |
| | C 127 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 128 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 201 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 202 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 203 | QCS11HJ-330 | C CAPACITOR | 50V 33PF | |
| | C 204 | QCS11HJ-220 | C CAPACITOR | 50V 22PF | |
| | C 205 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 206 | QET41EM-106 | E CAPACITOR | 25V 10UF | |
| | C 207 | QFVJ1HJ-563Z | M.M.CAP.IM | 50V 0.056UF | |
| | C 208 | QFVJ1HJ-563Z | M.M.CAP.IM | 50V 0.056UF | |
| | C 209 | QFLC1HJ-103Z | M CAPACITOR | 50V 0.01UF | |
| | C 210 | QCBB1HK-471Y | C CAPACITOR | 50V 470PF | |
| | C 211 | QFLC1HJ-104Z | M CAPACITOR | 50V 0.1UF | |
| | C 212 | QFLC1HJ-104Z | M CAPACITOR | 50V 0.1UF | |
| | C 213 | QET41AM-107 | E CAPACITOR | 10V 100UF | |
| | C 214 | QET41HM-105 | E CAPACITOR | 50V 1UF | |
| | C 215 | GJ110995391 | E.CAPACITOR | 2.2MF 20% 50V | |
| | C 216 | QCBB1HK-101Y | C CAPACITOR | 50V 100PF | |
| | C 217 | QCBB1HK-101Y | C CAPACITOR | 50V 100PF | |
| | C 218 | QET41HM-476 | E CAPACITOR | 50V 47UF | |
| | C 219 | QCS11HJ-100 | C CAPACITOR | 50V 10PF | |
| | C 220 | QFLC1HJ-153Z | M CAPACITOR | 50V 0.015UF | |
| | C 221 | QET41HM-226 | E CAPACITOR | 50V 22UF | |
| | C 222 | QFLC1HJ-104Z | M CAPACITOR | 50V 0.1UF | |
| | C 223 | QFLC1HJ-104Z | M CAPACITOR | 50V 0.1UF | |
| | C 227 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 228 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 229 | QETC1HM-224Z | E CAPACITOR | 50V 0.22UF | |
| | C 301 | QET41CM-106 | E CAPACITOR | 16V 10UF | |
| | C 302 | QDGB1HK-102Y | C CAPACITOR | 50V 1000PF | |
| | C 303 | QET41CM-476 | E CAPACITOR | 16V 47UF | |
| | C 304 | GJ270121080110 | E.CAPACITOR | 16V 1000UF | |
| | C 305 | QDVB1EZ-223Y | C CAPACITOR | 25V 0.022UF | |
| | C 306 | QDVB1EZ-223Y | C CAPACITOR | 25V 0.022UF | |
| | C 307 | QET41CM-226 | E CAPACITOR | 16V 22UF | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 309 | QET41CM-226 | E CAPACITOR | 16V 22UF | |
| | C 310 | QET41EM-106 | E CAPACITOR | 25V 10UF | |
| | C 311 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 312 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 313 | QET41CM-226 | E CAPACITOR | 16V 22UF | |
| | C 314 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 315 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 316 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 317 | QET41CM-107 | E CAPACITOR | 16V 100UF | |
| | C 318 | QETC1HM-224Z | E CAPACITOR | 50V 0.22UF | |
| | C 319 | QDVB1EZ-223Y | C CAPACITOR | 25V 0.022UF | |
| | C 320 | QET41CM-106 | E CAPACITOR | 16V 10UF | |
| | C 321 | QET41AM-476 | E CAPACITOR | 10V 47UF | |
| | C 322 | QET41CM-476 | E CAPACITOR | 16V 47UF | |
| | C 323 | QETC1HM-106Z | E CAPACITOR | 50V 10UF | |
| | C 324 | QETC1HM-106Z | E CAPACITOR | 50V 10UF | |
| | C 325 | QET41CM-476 | E CAPACITOR | 16V 47UF | |
| | C 326 | QET41CM-226 | E CAPACITOR | 16V 22UF | |
| | C 327 | QET41HM-105 | E CAPACITOR | 50V 1UF | |
| | C 328 | QET41AM-107 | E CAPACITOR | 10V 100UF | |
| | C 329 | QET41HM-105 | E CAPACITOR | 50V 1UF | |
| | C 330 | QET41HM-105 | E CAPACITOR | 50V 1UF | |
| | C 331 | QET41CM-106 | E CAPACITOR | 16V 10UF | |
| | C 332 | QFLC1HJ-153Z | M CAPACITOR | 50V 0.015UF | |
| | C 333 | QCS11HJ-330 | C CAPACITOR | 50V 33PF | |
| | C 334 | QDXB1CM-182Y | C CAPACITOR | 16V 0.0018UF | |
| | C 335 | QCBB1HK-681Y | C CAPACITOR | 50V 680PF | |
| | C 336 | QET41HM-105 | E CAPACITOR | 50V 1UF | |
| | C 337 | QET41CM-226 | E CAPACITOR | 16V 22UF | |
| | C 338 | QDVB1EZ-223Y | C CAPACITOR | 25V 0.022UF | |
| | C 340 | QDVB1EZ-223Y | C CAPACITOR | 25V 0.022UF | |
| | C 901 | QFV41HJ-683 | TF CAPACITOR | 50V 0.068UF | |
| | C 902 | QFV41HJ-683 | TF CAPACITOR | 50V 0.068UF | |
| | C 903 | QFV41HJ-683 | TF CAPACITOR | 50V 0.068UF | |
| | C 904 | QFV41HJ-683 | TF CAPACITOR | 50V 0.068UF | |
| ⚠ | C 905 | QETC1HM-228Z | E CAPACITOR | 50V 2200UF | |
| ⚠ | C 906 | QETC1HM-228Z | E CAPACITOR | 50V 2200UF | |
| | C 907 | QFLC1HJ-104Z | M CAPACITOR | 50V 0.1UF | |
| ⚠ | C 908 | QETB1EM-228 | E CAPACITOR | 25V 2200UF | |
| | C 909 | QETC1JM-107Z | E CAPACITOR | 63V 100UF | |
| | C 910 | QETC1JM-476Z | E CAPACITOR | 63V 47UF | |
| | C 911 | QET41HM-226 | E CAPACITOR | 50V 22UF | |
| | C 912 | QET41EM-475 | E CAPACITOR | 50V 4.7UF | |
| | C 913 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 914 | QET41HM-226 | E CAPACITOR | 50V 22UF | |
| | C 915 | QET41CM-106 | E CAPACITOR | 16V 10UF | |
| | C 916 | QCBB1HK-221Y | C CAPACITOR | 50V 220PF | |
| | C 917 | QETC1HM-225Z | E CAPACITOR | 50V 2.2UF | |
| | C 918 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 919 | QET41AM-107 | E CAPACITOR | 10V 100UF | |
| | C 920 | QET41CM-226 | E CAPACITOR | 16V 22UF | |
| | C 921 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 922 | QET41HM-226 | E CAPACITOR | 10V 22UF | |
| | C 923 | QET41CM-106 | E CAPACITOR | 16V 10UF | |
| | C 924 | QET41AM-108 | E CAPACITOR | 10V 1000UF | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 925 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | CF 1 | GJ176012711 | SP.CUSHION(T | | |
| | CF 2 | GJ176012711 | SP.CUSHION(T | | |
| | CF 3 | GJ176012711 | SP.CUSHION(T | | |
| | CF 4 | GJ157976211 | CERAMIC FILTER | | |
| | CN302 | GJ340022100108 | CONNECTOR FFC | | |
| | CN303 | GJ340022070108 | CONNECTOR FFC | | |
| | CN304 | GJ340022100108 | CONNECTOR FFC | | |
| | CN305 | GJ353100220110 | CABLE FFC/FPC | FFW302 TO DECK | |
| | CN305 | GJ340022110108 | CONNECTOR FFC | | |
| | CN306 | GJ340022170108 | CONNECTOR FFC | | |
| | CN307 | GJ340072040102 | CONNECTOR WIRE | 523800490 | |
| | CN603 | GJ353070300110 | CABLE FFC/FPC | FFW303 TO CD SE | |
| | CN604 | GJ353110250110 | CABLE FFC/FPC | FFW305 TO CD SE | |
| | CN701 | GJ353130120110 | CABLE FFC/FPC | FFW306A TO CTL | |
| | CN702 | GJ353170120110 | CABLE FFC/FPC | FFW306B TO CTL | |
| | CN801 | GJ353100180110 | CABLE FFC/FPC | FFW304 TO CD CH | |
| | CN901 | GJ340072050102 | CONNECTOR WIRE | CN901B FOR ECHO | |
| | CN901 | GJ340072040102 | CONNECTOR WIRE | CN901A | |
| | D 1 | 1SS133T-77 | SI DIODE | | |
| | D 2 | 1SS133T-77 | SI DIODE | | |
| | D 3 | 1SS133T-77 | SI DIODE | | |
| | D 4 | 1SS133T-77 | SI DIODE | | |
| | D 5 | 1SS133T-77 | SI DIODE | | |
| | D 6 | 1SS133T-77 | SI DIODE | | |
| | D 51 | 1SS133T-77 | SI DIODE | | |
| | D 55 | 1SS133T-77 | SI DIODE | | |
| | D 101 | 1SS133T-77 | SI DIODE | | |
| | D 201 | 1SS133T-77 | SI DIODE | | |
| | D 301 | 1SS133T-77 | SI DIODE | | |
| | D 302 | 1SS133T-77 | SI DIODE | | |
| | D 303 | 1SS133T-77 | SI DIODE | | |
| | D 304 | 11ES2 | SI DIODE | 8-719-025-01 | |
| | D 305 | 1SS133T-77 | SI DIODE | | |
| | D 306 | 1SS133T-77 | SI DIODE | | |
| | D 307 | 1SS133T-77 | SI DIODE | | |
| | D 308 | MTZJ5.1A | ZENER DIODE | MTZJ5.1A-T77 | |
| | D 309 | 11ES2 | SI DIODE | 8-719-025-01 | |
| | D 310 | 1SS133T-77 | SI DIODE | | |
| | D 312 | MTZJ24B | ZENER DIODE | GJ871992217 | |
| | D 313 | 1SS133T-77 | SI DIODE | | |
| | D 314 | 1SS133T-77 | SI DIODE | | |
| | D 315 | 1SS133T-77 | SI DIODE | | |
| | D 316 | 1SS133T-77 | SI DIODE | | |
| | D 317 | 1SS133T-77 | SI DIODE | | |
| | D 318 | 1SS133T-77 | SI DIODE | | |
| | D 319 | 1SS133T-77 | SI DIODE | | |
| | D 320 | 1SS133T-77 | SI DIODE | | |
| | D 321 | 1SS133T-77 | SI DIODE | | |
| ⚠ | D 901 | 1N5401TM | SI DIODE | | |
| ⚠⚠ | D 902 | 1N5401TM | SI DIODE | | |
| ⚠⚠ | D 903 | 1N5401TM | SI DIODE | | |
| ⚠ | D 904 | 1N5401TM | SI DIODE | | |
| | D 905 | 11ES2 | SI DIODE | 8-719-025-01 | |
| | D 906 | 11ES2 | SI DIODE | 8-719-025-01 | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| ⚠⚠ | D 907 | 11ES2 | SI DIODE | 8-719-025-01 | |
| ⚠⚠ | D 908 | 11ES2 | SI DIODE | 8-719-025-01 | |
| | D 909 | MTZJ33C-T2 | ZENER DIODE | | |
| | D 910 | MTZJ6.2A-T77 | ZENER DIODE | MTZJ-T-77-6.2A | |
| | D 911 | MTZJ6.2A-T77 | ZENER DIODE | MTZJ-T-77-6.2A | |
| | D 912 | 1SS133T-77 | SI DIODE | | |
| | D 913 | 1SS133T-77 | SI DIODE | | |
| | D 914 | MTZJ9.1A-T77 | ZENER DIODE | MTZJ-T-77-9.1A | |
| | D 915 | MTZJ5.6C-T1 | ZENER DIODE | MTZJ5.6C-T77 | |
| | D 916 | MTZJ3.9A-T2 | ZENER DIODE | | |
| | D 917 | MTZJ3.9A-T2 | ZENER DIODE | | |
| | IC 1 | TA2057N | IC | | |
| | IC 2 | LC72136N | IC | | |
| ⚠ | IC101 | TDA7295 | IC | | |
| ⚠⚠ | IC201 | TDA7295 | IC | | |
| | IC301 | NJM4580D | IC | | |
| | IC302 | BH3854AS | IC | | |
| | IC303 | BA15218 | IC | | |
| | IC304 | TC4053BP | IC | | |
| | J 301 | GJ342030140109 | JACK | AUX | |
| | J 302 | GJ342060010111 | JACK | ANT. TERMINAL | |
| | JA301 | GJ342040110908 | JACK | SP TERMINAL | |
| | L 2 | QQR0830-001 | COIL BLOCK | MW/LW | |
| | L 3 | GJ141050231 | FERRITE BEAD IN | 2.7UH | |
| | L 4 | GJ141051131 | FERRITE BEAD IN | 15UH | |
| | L 51 | QQL231K-221Y | INDUCTOR | 220UH 10% | |
| | L 101 | GJ320080150109 | COIL SPRING | AC0775 | |
| | L 201 | GJ320080150109 | COIL SPRING | AC0775 | |
| | L 301 | GJ241131001301 | FERRITE BEAD IN | 10UH | |
| | L 302 | GJ141039721 | FERRITE BEAD IN | 1.1UH | |
| | L 303 | GJ141039721 | FERRITE BEAD IN | 1.1UH | |
| | Q 1 | 2SC1923(O) | TRANSISTOR | 2SC1923/O | |
| | Q 2 | 2SC2785/E/-T | TRANSISTOR | 2SC2785TP-E | |
| | Q 3 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | Q 4 | DTA114YSTP | TRANSISTOR | GJ872990281 | |
| | Q 51 | DTA114YSTP | TRANSISTOR | GJ872990281 | |
| | Q 52 | DTC144TSTP | TRANSISTOR | GJ312010511203 | |
| | Q 101 | 2SD2144S/VW/-T | TRANSISTOR | 2SD2144S-TP | |
| | Q 103 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | Q 104 | 2SD2144S/VW/-T | TRANSISTOR | 2SD2144S-TP | |
| | Q 105 | 2SD2144S/VW/-T | TRANSISTOR | 2SD2144S-TP | |
| | Q 201 | 2SD2144S/VW/-T | TRANSISTOR | 2SD2144S-TP | |
| | Q 203 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | Q 204 | 2SD2144S/VW/-T | TRANSISTOR | 2SD2144S-TP | |
| | Q 205 | 2SD2144S/VW/-T | TRANSISTOR | 2SD2144S-TP | |
| | Q 301 | DTA114YSTP | TRANSISTOR | GJ872990281 | |
| | Q 302 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | Q 303 | 2SC945QP | TRANSISTOR | 2SC945/Q,P | |
| | Q 304 | 2SA933/RS/-T | TRANSISTOR | 2SA933S-R | |
| | Q 305 | 2SC945QP | TRANSISTOR | 2SC945/Q,P | |
| | Q 306 | 2SC945QP | TRANSISTOR | 2SC945/Q,P | |
| | Q 307 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | Q 308 | DTA114ESA-TP | TRANSISTOR | 8-729-029-21 | |
| | Q 309 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | Q 310 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | Q 311 | DTC144TSA-TP | TRANSISTOR | 3-1201-051-12-0 | |
| | Q 312 | 2SC945QP | TRANSISTOR | 2SC945/Q,P | |
| | Q 901 | 2SA934/QR/-T | TRANSISTOR | 2SA934/R | |
| | Q 902 | DTC114YSTP | TRANSISTOR | GJ872990437 | |
| | Q 903 | DTC114YSTP | TRANSISTOR | GJ872990437 | |
| ⚠ | Q 904 | 2SB1375 | TRANSISTOR | 8-729-209-60 | |
| | Q 905 | 2SA1175TP-F | TRANSISTER | 8-729-101-54 | |
| | Q 906 | DTA144TS-T | TRANSISTOR | DTA144T | |
| | Q 907 | DTC144TSTP | TRANSISTOR | GJ312010511203 | |
| | Q 908 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | Q 909 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| ⚠ | Q 910 | 2SB1375 | TRANSISTOR | 8-729-209-60 | |
| | Q 911 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | Q 912 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | Q 913 | 2SA1175TP-F | TRANSISTER | 8-729-101-54 | |
| | Q 914 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | Q 915 | 2SB1375 | TRANSISTOR | 8-729-209-60 | |
| | Q 916 | 2SC2785/E/-T | TRANSISTOR | 2SC2785/E-T | |
| | R 1 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 2 | QRE141J-270Y | C RESISTOR | 1/4W 27 | |
| | R 3 | GJ250081012103 | RES CF | 1/6W 100 | |
| | R 5 | QRE141J-331Y | C RESISTOR | 1/4W 330 | |
| | R 6 | QRE141J-474Y | C RESISTOR | 1/4W 470K | |
| | R 7 | QRE141J-560Y | C RESISTOR | 1/4W 56 | |
| | R 8 | QRE141J-331Y | C RESISTOR | 1/4W 330 | |
| | R 9 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 10 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 11 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 11 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 12 | QRE141J-562Y | C RESISTOR | 1/4W 5.6K | |
| | R 13 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 14 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 14 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 15 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 15 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 16 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 17 | QRE141J-271Y | C RESISTOR | 1/4W 270 | |
| | R 18 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 19 | QRE141J-273Y | C RESISTOR | 1/4W 27K | |
| | R 20 | QRE141J-223Y | C RESISTOR | 1/4W 22K | |
| | R 22 | QRE141J-392Y | C RESISTOR | 1/4W 3.9K | |
| | R 23 | QRE141J-392Y | C RESISTOR | 1/4W 3.9K | |
| | R 24 | QRE141J-562Y | C RESISTOR | 1/4W 5.6K | |
| | R 25 | QRE141J-562Y | C RESISTOR | 1/4W 5.6K | |
| | R 26 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 27 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 28 | QRE141J-152Y | C RESISTOR | 1/4W 1.5K | |
| | R 29 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 29 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 30 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 30 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 51 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 52 | QRE141J-332Y | C RESISTOR | 1/4W 3.3K | |
| | R 53 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 54 | QRE141J-182Y | C RESISTOR | 1/4W 1.8K | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 55 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 56 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 57 | QRE141J-331Y | C RESISTOR | 1/4W 330 | |
| | R 58 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 58 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 59 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 60 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 61 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 62 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 63 | QRE141J-473Y | C RESISTOR | 1/4W 47K | |
| | R 64 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 65 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 66 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 66 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 67 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 68 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 69 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 70 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 70 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 71 | QRE141J-223Y | C RESISTOR | 1/4W 22K | |
| | R 102 | QRE141J-563Y | C RESISTOR | 1/4W 56K | |
| | R 103 | QRE141J-273Y | C RESISTOR | 1/4W 27K | |
| | R 104 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 105 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 106 | QRE141J-332Y | C RESISTOR | 1/4W 3.3K | |
| | R 108 | QRE141J-184Y | C RESISTOR | 1/4W 180K | |
| | R 109 | QRE141J-823Y | C RESISTOR | 1/4W 82K | |
| | R 110 | QRE141J-273Y | C RESISTOR | 1/4W 27K | |
| | R 111 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 112 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 113 | QRE141J-103Y | C RESISTOR | 1/4W 10K | B,E,EN |
| | R 114 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 115 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 116 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 116 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 117 | QRE141J-752Y | C RESISTOR | 1/4W 7.5K | |
| | R 118 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 118 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 119 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 120 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 121 | QRE141J-154Y | C RESISTOR | 1/4W 150K | |
| | R 122 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 123 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 124 | QRE141J-561Y | C RESISTOR | 1/4W 560 | |
| | R 125 | QRE141J-823Y | C RESISTOR | 1/4W 82K | |
| | R 126 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 127 | QRE141J-122Y | C RESISTOR | 1/4W 1.2K | |
| | R 128 | GJ250051002510 | ANT.TERMINAL(A | 1/4W J 10 | |
| | R 130 | GJ250051002510 | ANT.TERMINAL(A | 1/4W J 10 | |
| ⚠ | R 132 | GJ253152282509 | RESISTOR | MOF 0.22 1W | |
| | R 133 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 134 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 135 | GJ250056812510 | RESISTOR | 1/4W 680 | |
| | R 136 | QRE141J-821Y | C RESISTOR | 1/4W 820 | |
| | R 137 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 147 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 148 | QRE141J-392Y | C RESISTOR | 1/4W 3.9K | |
| | R 202 | QRE141J-563Y | C RESISTOR | 1/4W 56K | |
| | R 203 | QRE141J-273Y | C RESISTOR | 1/4W 27K | |
| | R 204 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 205 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 206 | QRE141J-332Y | C RESISTOR | 1/4W 3.3K | |
| | R 208 | QRE141J-184Y | C RESISTOR | 1/4W 180K | |
| | R 209 | QRE141J-823Y | C RESISTOR | 1/4W 82K | |
| | R 210 | QRE141J-273Y | C RESISTOR | 1/4W 27K | |
| | R 211 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 212 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 213 | QRE141J-103Y | C RESISTOR | 1/4W 10K | B,E,EN |
| | R 214 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 215 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 216 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 217 | QRE141J-752Y | C RESISTOR | 1/4W 7.5K | |
| | R 218 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 219 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 220 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 221 | QRE141J-154Y | C RESISTOR | 1/4W 150K | |
| | R 222 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 223 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 224 | QRE141J-561Y | C RESISTOR | 1/4W 560 | |
| | R 225 | QRE141J-823Y | C RESISTOR | 1/4W 82K | |
| | R 226 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 227 | QRE141J-122Y | C RESISTOR | 1/4W 1.2K | |
| | R 228 | GJ250051002510 | ANT.TERMINAL(A | 1/4W J 10 | |
| | R 230 | GJ250051002510 | ANT.TERMINAL(A | 1/4W J 10 | |
| ⚠ | R 232 | GJ253152282509 | RESISTOR | MOF 0.22 1W | |
| | R 233 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 234 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 235 | GJ250056812510 | RESISTOR | 1/4W 680 | |
| | R 236 | QRE141J-821Y | C RESISTOR | 1/4W 820 | |
| | R 237 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 247 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 248 | QRE141J-392Y | C RESISTOR | 1/4W 3.9K | |
| | R 302 | QRE141J-223Y | C RESISTOR | 1/4W 22K | |
| | R 303 | QRE141J-473Y | C RESISTOR | 1/4W 47K | |
| | R 304 | QRE141J-153Y | C RESISTOR | 1/4W 15K | |
| | R 305 | QRE141J-333Y | C RESISTOR | 1/4W 33K | |
| | R 306 | QRE141J-393Y | C RESISTOR | 1/4W 39K | |
| | R 307 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 308 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 309 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 311 | QRE141J-562Y | C RESISTOR | 1/4W 5.6K | |
| | R 312 | QRE141J-223Y | C RESISTOR | 1/4W 22K | |
| | R 313 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 314 | QRE141J-152Y | C RESISTOR | 1/4W 1.5K | |
| | R 315 | QRE141J-101Y | C RESISTOR | 1/4W 100 | |
| | R 316 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 317 | QRE141J-223Y | C RESISTOR | 1/4W 22K | |
| | R 318 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 319 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 320 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 321 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 322 | QRE141J-122Y | C RESISTOR | 1/4W 1.2K | |
| | R 323 | QRE141J-223Y | C RESISTOR | 1/4W 22K | |
| | R 324 | GJ253151022508 | RESISTOR | MOF 1K 1W | |
| | R 325 | GJ253151022508 | RESISTOR | MOF 1K 1W | |
| | R 326 | QRE141J-471Y | C RESISTOR | 1/4W 470 | |
| | R 327 | QRE141J-471Y | C RESISTOR | 1/4W 470 | |
| | R 328 | QRE141J-474Y | C RESISTOR | 1/4W 470K | |
| | R 329 | QRE141J-471Y | C RESISTOR | 1/4W 470 | |
| | R 330 | QRE141J-682Y | C RESISTOR | 1/4W 6.8K | |
| | R 331 | QRE141J-332Y | C RESISTOR | 1/4W 3.3K | |
| | R 332 | QRE141J-223Y | C RESISTOR | 1/4W 22K | |
| | R 333 | QRE141J-223Y | C RESISTOR | 1/4W 22K | |
| | R 334 | QRE141J-563Y | C RESISTOR | 1/4W 56K | |
| | R 335 | QRE141J-273Y | C RESISTOR | 1/4W 27K | |
| | R 336 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 337 | QRE141J-225Y | C RESISTOR | 1/4W 2.2M | |
| | R 338 | QRE141J-473Y | C RESISTOR | 1/4W 47K | |
| | R 339 | QRE141J-220Y | C RESISTOR | 1/4W 22 | |
| | R 340 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 341 | QRE141J-101Y | C RESISTOR | 1/4W 100 | |
| | R 342 | QRE141J-124Y | C RESISTOR | 1/4W 120K | |
| | R 358 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| ⚠ | R 901 | GJ255051002610 | RESISTOR | FUSIBLE 1/4W 10 | |
| ⚠ | R 902 | GJ255052202610 | RESISTOR | FUSIBLE 1/4W 2 | |
| | R 903 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 904 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 905 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 905 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 906 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 907 | QRE141J-471Y | C RESISTOR | 1/4W 470 | |
| | R 908 | QRE141J-109Y | C RESISTOR | 1/4W 1 | |
| | R 909 | QRE141J-109Y | C RESISTOR | 1/4W 1 | |
| | R 910 | QRE141J-109Y | C RESISTOR | 1/4W 1 | |
| | R 911 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 912 | QRE141J-682Y | C RESISTOR | 1/4W 6.8K | |
| | R 913 | QRE141J-122Y | C RESISTOR | 1/4W 1.2K | |
| | R 914 | QRE141J-821Y | C RESISTOR | 1/4W 820 | |
| | R 915 | QRE141J-151Y | C RESISTOR | 1/4W 150 | |
| | R 916 | QRE141J-151Y | C RESISTOR | 1/4W 150 | |
| | R 917 | QRE141J-471Y | C RESISTOR | 1/4W 470 | |
| | R 918 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 919 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 920 | QRE141J-222Y | C RESISTOR | 1/4W 2.2K | |
| | R 921 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 922 | QRE141J-472Y | C RESISTOR | 1/4W 4.7K | |
| | R 923 | QRE141J-473Y | C RESISTOR | 1/4W 47K | |
| | R 924 | QRE141J-681Y | C RESISTOR | 1/4W 680 | |
| | R 925 | QRE141J-223Y | C RESISTOR | 1/4W 22K | |
| | R 926 | QRE141J-682Y | C RESISTOR | 1/4W 6.8K | |
| | R 927 | GJ255053902610 | RESISTOR | FUSING 1/4W 39 | |
| | R 928 | QRE141J-101Y | C RESISTOR | 1/4W 100 | |
| | R 929 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 930 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 931 | QRE141J-332Y | C RESISTOR | 1/4W 3.3K | |

## ■ CD mechanism driver board

BLOCK NO. 02

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 932 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 932 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 933 | QRE141J-181Y | C RESISTOR | 1/4W 180 | |
| | RY901 | QSK0057-001 | RELAY | 24V | |
| | T 2 | GJ123388511 | IFT | | |
| | TU 1 | GJ321000580106 | FM FRONT END | TFFJ4Z547A | EE,EV |
| | TU 1 | GJ321000570106 | FM FRONT END | TFFJ4E567A | B,E,EN |
| | X 1 | QAX0402-001 | CRYSTAL | 75KHZ | |

BLOCK NO. 03

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 801 | QET41AM-107 | E CAPACITOR | 10V 100UF | |
| | C 802 | QET41EM-475 | E CAPACITOR | 25V 4.7UF | |
| | C 803 | QFVJ1HJ-102Z | E CAPACITOR | 50V 0.001UF | |
| | C 804 | QDYB1CM-104Y | C CAPACITOR | 16V 0.1UF | |
| | C 805 | QET41CM-476 | E CAPACITOR | 16V 47UF | |
| | C 805 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 807 | QET41CM-476 | E CAPACITOR | 16V 47UF | |
| | C 808 | QFVJ1HJ-102Z | E CAPACITOR | 50V 0.001UF | |
| | C 810 | GJ263151551132 | CAPACITOR | 50V 1.5UF | |
| | C 811 | GJ263151551132 | CAPACITOR | 50V 1.5UF | |
| | C 813 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 821 | QDYB1CM-102Y | C.CAPACITOR | 16V 0.001UF | |
| | CN801 | GJ340021100102 | CONNECTOR FFC | | |
| | CN802 | VMC0289-P07 | CONNECTOR PIN | | |
| | CN803 | QGG2002M4-10 | CONNECTOR | | |
| | CN805 | QGB2021L1-10 | CONNECTOR | | |
| | IC801 | UPD65612GB-177 | IC | | |
| | IC802 | TA8409S | IC | | |
| | IC803 | TA8409S | IC | | |
| | L 801 | QQL231K-100Y | INDUCTOR | 10UH 10% | |
| | L 802 | 3A839N | INDUCTOR | GJ320030010109 | |
| | L 803 | 3A839N | INDUCTOR | GJ320030010109 | |
| | L 804 | 3A839N | INDUCTOR | GJ320030010109 | |
| | R 805 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 806 | QRE141J-471Y | C RESISTOR | 1/4W 470 | |
| | R 807 | QRE141J-471Y | C RESISTOR | 1/4W 470 | |
| | R 808 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 810 | QRE141J-684Y | C RESISTOR | 1/4W 680K | |
| | R 811 | QRE141J-105Y | C RESISTOR | 1/4W 1M | |
| | R 813 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 814 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 815 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 816 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 817 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 818 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 819 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 820 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 821 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 822 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 823 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 824 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 825 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 826 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 827 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 828 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 829 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 830 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 832 | QRE141J-181Y | C RESISTOR | 1/4W 180 | |
| | R 833 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 834 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 839 | QRE141J-332Y | C RESISTOR | 1/4W 3.3K | |
| | R 840 | QRE141J-562Y | C RESISTOR | 1/4W 5.6K | |

## ■ CD servo & amplifier board

BLOCK NO. 04

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 604 | QET41AM-107 | E CAPACITOR | 10V 100UF | |
| | C 605 | QET41EM-106 | E CAPACITOR | 25V 10UF | |
| | C 606 | QDGB1HK-102Y | C CAPACITOR | 50V 1000PF | |
| | C 607 | QDGB1HK-102Y | C CAPACITOR | 50V 1000PF | |
| | C 608 | QET41HM-105 | E CAPACITOR | 50V 1UF | |
| | C 609 | QCBB1HK-101Y | C CAPACITOR | 50V 100PF | |
| | C 610 | QFLC1HJ-273Z | M CAPACITOR | 50V 0.027UF | |
| | C 611 | QDXB1CM-222Y | C CAPACITOR | 16V 0.0022UF | |
| | C 612 | QDYB1CM-103Y | C CAPACITOR | 16V 0.01UF | |
| | C 613 | QDBB1HK-331Y | C CAPACITOR | 50V 330PF | |
| | C 614 | QFLC1HJ-104Z | M CAPACITOR | 50V 0.1UF | |
| | C 615 | QDVB1EZ-223Y | C CAPACITOR | 25V 0.022UF | |
| | C 616 | QDVB1EZ-223Y | C CAPACITOR | 25V 0.022UF | |
| | C 617 | QDVB1EZ-223Y | C CAPACITOR | 25V 0.022UF | |
| | C 618 | QDXB1CM-222Y | C CAPACITOR | 16V 0.0022UF | |
| | C 619 | QCBB1HK-271Y | C CAPACITOR | 50V 270PF | |
| | C 620 | QCS11HJ-470 | C CAPACITOR | 50V 47PF | |
| | C 621 | QCBB1HK-821Y | C.CAPACITOR | 50V 820PF | |
| | C 622 | QET41AM-476 | E CAPACITOR | 10V 47UF | |
| | C 623 | QFLC1HJ-104Z | M CAPACITOR | 50V 0.1UF | |
| | C 628 | QDX31EM-473Z | C CAPACITOR | 47000PF 50V | |
| | C 629 | QET41AM-107 | E CAPACITOR | 10V 100UF | |
| | C 631 | QET41AM-477 | E CAPACITOR | 10V 470UF | |
| | C 632 | QET41AM-107 | E CAPACITOR | 10V 100UF | |
| | C 651 | QCS11HJ-120 | C CAPACITOR | 50V 12PF | |
| | C 652 | QCS11HJ-150 | C CAPACITOR | 50V 15PF | |
| | C 653 | QDVB1EZ-223Y | C CAPACITOR | 25V 0.022UF | |
| | C 655 | QDX31EM-473Z | C CAPACITOR | 47000PF 50V | |
| | C 661 | QCBB1HK-471Y | C CAPACITOR | 50V 470PF | |
| | C 662 | QDVB1EZ-223Y | C CAPACITOR | 25V 0.022UF | |
| | C 663 | QFLC1HJ-223Z | M CAPACITOR | 50V 0.022UF | |
| | C 664 | QDVB1EZ-223Y | C CAPACITOR | 25V 0.022UF | |
| | C 665 | QFLC1HJ-334Z | M CAPACITOR | 50V 0.33UF | |
| | C 671 | QDXB1CM-222Y | C CAPACITOR | 16V 0.0022UF | |
| | C 672 | QDXB1CM-222Y | C CAPACITOR | 16V 0.0022UF | |
| | C 673 | QET41AM-227 | E CAPACITOR | 10V 220UF | |
| | C 674 | QDVB1EZ-223Y | C CAPACITOR | 25V 0.022UF | |
| | C 675 | QDGB1HK-102Y | C CAPACITOR | 50V 1000PF | |
| | C 676 | QDGB1HK-102Y | C CAPACITOR | 50V 1000PF | |
| | C 691 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 692 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 693 | QCBB1HK-151Y | C CAPACITOR | 50V 150PF | |
| | C 698 | QDGB1HK-102Y | C CAPACITOR | 50V 1000PF | |
| | CN601 | GJ340021150108 | CONNECTOR FFC | | |
| | CN602 | TXLP-06P-B1 | PIN CONNECTOR | SMALL TYPE/ 6P | |
| | CN603 | GJ340021070108 | CONNECTOR FFC | | |
| | CN604 | GJ340021110108 | CONNECTOR FFC | 52044-1145 | |
| | D 661 | 1SS133-T2 | DIODE | 1SS33-T2 | |
| | FW601 | GJ353150090110 | CCABLE FFC/FPC | CN601 TO CD MEC | |
| | FW602 | GJ354004250105 | WIRE KIT | CN602 TO CD MEC | |
| | IC601 | AN8806SB | IC | | |
| | IC602 | BA6897FPM | IC | | |
| | IC603 | MN35510 | IC | | |
| | Q 601 | 2SA952(L) | TR. | | |
| | Q 631 | 2SA952(L) | TR. | | |

BLOCK NO. 04

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 601 | QRE141J-123Y | C RESISTOR | 1/4W 12K | |
| | R 603 | QRE141J-125Y | C.RES. I.M | 1/4W 4 1.2M | |
| | R 605 | QRE141J-134Y | C.RES. I.M | 1/4W 130K | |
| | R 606 | QRE141J-913Y | C RESISTOR | 1/4W 91K | |
| | R 607 | QRE141J-273Y | C RESISTOR | 1/4W 27K | |
| | R 609 | QRE141J-114Y | C.RES. I.M | 1/4W 110K | |
| | R 610 | QRE141J-154Y | C RESISTOR | 1/4W 150K | |
| | R 612 | QRE141J-103Y | C RESISTOR | 1/4W 10K | |
| | R 613 | QRE141J-121Y | C RESISTOR | 1/4W 120 | |
| | R 614 | QRE141J-100Y | C RESISTOR | 1/4W 10 | |
| | R 615 | QRE141J-120Y | C RESISTOR | 1/4W 12 | |
| | R 616 | QRE141J-910Y | C RESISTOR | 1/4W 90 | |
| | R 621 | QRE141J-330Y | C RESISTOR | 1/4W 33 | |
| | R 622 | QRE141J-330Y | C RESISTOR | 1/4W 33 | |
| | R 623 | QRE141J-330Y | C RESISTOR | 1/4W 33 | |
| | R 631 | QRE141J-331Y | C RESISTOR | 1/4W 330 | |
| | R 632 | QRE141J-101Y | C RESISTOR | 1/4W 100 | |
| | R 633 | QRE141J-273Y | C RESISTOR | 1/4W 27K | |
| | R 641 | QRE141J-563Y | C RESISTOR | 1/4W 56K | |
| | R 642 | QRE141J-123Y | C RESISTOR | 1/4W 12K | |
| | R 643 | QRE141J-822Y | C RESISTOR | 1/4W 8.2K | |
| | R 644 | QRE141J-224Y | C RESISTOR | 1/4W 22K | |
| | R 645 | QRE141J-224Y | C RESISTOR | 1/4W 22K | |
| | R 646 | QRE141J-182Y | C RESISTOR | 1/4W 1.8K | |
| | R 647 | QRE141J-562Y | C RESISTOR | 1/4W 5.6K | |
| | R 651 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 652 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 653 | QRE141J-471Y | C RESISTOR | 1/4W 470 | |
| | R 654 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 655 | QRE141J-471Y | C RESISTOR | 1/4W 470 | |
| | R 659 | QRE141J-471Y | C RESISTOR | 1/4W 470 | |
| | R 661 | QRE141J-104Y | C RESISTOR | 1/4W 100K | |
| | R 663 | QRE141J-124Y | C RESISTOR | 1/4W 120K | |
| | R 664 | QRE141J-681Y | C RESISTOR | 1/4W 680 | |
| | R 666 | QRE141J-220Y | C RESISTOR | 1/4W 22 | |
| | R 671 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | R 672 | QRE141J-102Y | C RESISTOR | 1/4W 1K | |
| | X 651 | GJ361000240009 | CRYSTAL | 16.9344MHZ | |

## ■ CD tray switch board

BLOCK NO. 05

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | CN804 | VMC0289-S07 | CONNECTOR | | |
| | SW 1 | MPU10105MMB0 | SWITCH | | |
| | SW 2 | MPU10105MMB0 | SWITCH | | |
| | SW 3 | MPU10105MMB0 | SWITCH | | |
| | SW 4 | MPU10105MMB0 | SWITCH | | |
| | SW 5 | MPU10105MMB0 | SWITCH | | |
| | SW 6 | MPU10105MMB0 | SWITCH | | |

## ■ Cassette mechanism amplifier board

BLOCK NO. 06

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 101 | NCS21HJ-561X | C CAPACITOR | | |
| | C 102 | NCS21HJ-331X | C CAPACITOR | | |
| | C 103 | NCS21HJ-561X | C CAPACITOR | | |
| | C 104 | NCS21HJ-221X | C CAPACITOR | | |
| | C 105 | QEK40JM-227 | E CAPACITOR | 220MF 20% 6.3V | |
| | C 106 | NCB21HK-333X | C CAPACITOR | | |
| | C 107 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 108 | NCB21HK-393X | C CAPACITOR | | |
| | C 110 | NCS21HJ-221X | C CAPACITOR | | |
| | C 111 | QEK41HM-104 | E CAPACITOR | .10MF 20% 50V | |
| | C 112 | QEK41CM-106 | E CAPACITOR | 10MF 20% 16V | |
| | C 113 | NCB21HK-332X | C CAPACITOR | | |
| | C 114 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 115 | NCB21HK-153X | C CAPACITOR | | |
| | C 116 | NCB21HK-822X | C CAPACITOR | | |
| | C 117 | NCB21HK-223X | C CAPACITOR | | |
| | C 119 | NCB21HK-563X | C CAPACITOR | | |
| | C 120 | NCS21HJ-330X | C CAPACITOR | | |
| | C 201 | NCS21HJ-561X | C CAPACITOR | | |
| | C 202 | NCS21HJ-331X | C CAPACITOR | | |
| | C 203 | NCS21HJ-561X | C CAPACITOR | | |
| | C 204 | NCS21HJ-221X | C CAPACITOR | | |
| | C 205 | QEK40JM-227 | E CAPACITOR | 220MF 20% 6.3V | |
| | C 206 | NCB21HK-333X | C CAPACITOR | | |
| | C 207 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 208 | NCB21HK-393X | C CAPACITOR | | |
| | C 210 | NCS21HJ-221X | C CAPACITOR | | |
| | C 211 | QEK41HM-104 | E CAPACITOR | .10MF 20% 50V | |
| | C 212 | QEK41CM-106 | E CAPACITOR | 10MF 20% 16V | |
| | C 213 | NCB21HK-332X | C CAPACITOR | | |
| | C 214 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 215 | NCB21HK-153X | C CAPACITOR | | |
| | C 216 | NCB21HK-822X | C CAPACITOR | | |
| | C 217 | NCB21HK-223X | C CAPACITOR | | |
| | C 219 | NCB21HK-563X | C CAPACITOR | | |
| | C 220 | NCS21HJ-330X | C CAPACITOR | | |
| | C 301 | QEK41CM-106 | E CAPACITOR | 10MF 20% 16V | |
| | C 302 | QEK41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C 303 | QEK41CM-226 | E CAPACITOR | 22MF 20% 16V | |
| | C 304 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 305 | NCB21HK-393X | C CAPACITOR | | |
| | C 306 | QEK40JM-227 | E CAPACITOR | 220MF 20% 6.3V | |
| | C 308 | NCB21HK-562X | C CAPACITOR | | |
| | C 309 | NCB21HK-562X | C CAPACITOR | | |
| | C 310 | NCB21HK-223X | C CAPACITOR | | |
| | C 311 | NCB21HK-682X | C.CAPACITOR | | |
| | C 313 | QEKJ1AM-107Z | E CAPACITOR | 100MF 20% 10V | |
| | C 314 | QCZ0205-155Z | ML C CAPACITOR | 1.5MF | |
| | C 315 | QCZ0205-155Z | ML C CAPACITOR | 1.5MF | |
| | C 316 | QFG32AJ-103Z | PP CAPACITOR | .010MF 5% 100V | |
| | C 318 | NCB21HK-103X | C CAPACITOR | | |
| | C 319 | QFG32AJ-821Z | TF CAPACITOR | 820PF 5% 100V | |
| | C 321 | NCB21HK-103X | C CAPACITOR | | |
| | C 322 | QFG32AJ-152Z | M CAPACITOR | 1500PF 5% 100V | |
| | C 327 | QEK41CM-476 | E CAPACITOR | 47MF 20% 16V | |

BLOCK NO. 06

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | C 328 | NCS21HJ-151X | C CAPACITOR | | |
| | C 329 | NCS21HJ-151X | C CAPACITOR | | |
| | C 330 | NCS21HJ-151X | C CAPACITOR | | |
| | C 332 | NCS21HJ-151X | C CAPACITOR | | |
| | C 335 | NCB21HK-103X | C CAPACITOR | | |
| | C 336 | NCB21HK-103X | C CAPACITOR | | |
| | C 337 | NCB21HK-103X | C CAPACITOR | | |
| | C 338 | NCB21HK-103X | C CAPACITOR | | |
| | C 339 | QEK41CM-476 | E CAPACITOR | 47MF 20% 16V | |
| | C 340 | NCB21HK-103X | C CAPACITOR | | |
| | C 341 | QEKJ1AM-107Z | E CAPACITOR | 100MF 20% 10V | |
| | C 342 | QEK41EM-475 | E CAPACITOR | 4.7MF 20% 25V | |
| | C 343 | QET41CM-106 | E CAPACITOR | 10MF 20% 16V | |
| | C 344 | NCB21HK-472X | C CAPACITOR | | |
| | C 345 | NCS21HJ-331X | C CAPACITOR | | |
| | C 350 | QFLM1HJ-102Z | M CAPACITOR | 1000PF 5% 50V | |
| | CN301 | QGF1205F1-06 | CONNECTOR | | |
| | CN302 | QGF1205F1-06 | CONNECTOR | | |
| | CN303 | QGB2011M1-10 | B TO B CONNECTO | | |
| | CN304 | QGB2011M1-10 | B TO B CONNECTO | | |
| | CN305 | QGF1205F1-10 | CONNECTOR | | |
| | CN306 | QGF1205F1-11 | CONNECTOR | | |
| | D 307 | HZM5.1NB2-X | CHIP Z DIODE CM | | |
| | D 308 | HZM5.1NB2-X | CHIP Z DIODE CM | | |
| | D 309 | MA704A-X | S.K.DIODE | | |
| | IC301 | BA3126N | IC | | |
| | IC302 | AN7345K | IC | | |
| | IC303 | BU4094BCF-X | IC | | |
| | IC304 | BU4094BCF-X | IC | | |
| | L 202 | QQR0779-001Z | INDUCTOR | EMC | |
| | L 301 | QQR0620-001 | OSC COIL(BIAS) | | |
| | L 303 | QQL01BK-100Z | INDUCTOR | | |
| | Q 102 | DTC144TKA-X | TRANSISTOR | | |
| | Q 103 | DTC144EKA-X | TRANSISTOR | | |
| | Q 105 | 2SC3576-JVC-T | TRANSISTOR | | |
| | Q 202 | DTC144TKA-X | TRANSISTOR | | |
| | Q 203 | DTC144EKA-X | TRANSISTOR | | |
| | Q 205 | 2SC3576-JVC-T | TRANSISTOR | | |
| | Q 302 | 2SC2001/K/-T | TRANSISTOR | | |
| | Q 303 | 2SC2001/K/-T | TRANSISTOR | | |
| | Q 304 | 2SC3576-JVC-T | TRANSISTOR | | |
| | Q 305 | 2SC3576-JVC-T | TRANSISTOR | | |
| | Q 306 | 2SC2412K/RS/-X | CHIP TRANSISTOR | | |
| | Q 307 | 2SC2412K/RS/-X | CHIP TRANSISTOR | | |
| | Q 308 | 2SC2412K/RS/-X | CHIP TRANSISTOR | | |
| | Q 309 | 2SC2412K/RS/-X | CHIP TRANSISTOR | | |
| | Q 312 | 2SB562/C/-T | TRANSISTOR | | |
| | Q 313 | 2SC2412K/RS/-X | CHIP TRANSISTOR | | |
| | Q 314 | 2SB562/C/-T | TRANSISTOR | | |
| | Q 315 | 2SC2412K/RS/-X | CHIP TRANSISTOR | | |
| | Q 316 | 2SA952/LK/-T | TRANSISTOR | | |
| | Q 317 | DTC124EKA-X | TRANSISTOR | | |
| | Q 321 | DTC144EKA-X | TRANSISTOR | | |
| | Q 322 | DTC144EKA-X | TRANSISTOR | | |
| | Q 323 | 2SC2412K/RS/-X | CHIP TRANSISTOR | | |

BLOCK NO. 06

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 102 | NRSA02J-102X | MG RESISTOR | | |
| | R 103 | NRSA02J-183X | MG RESISTOR | | |
| | R 105 | NRSA02J-220X | MG RESISTOR | | |
| | R 106 | NRSA02J-392X | MG RESISTOR | | |
| | R 107 | NRSA02J-123X | MG RESISTOR | | |
| | R 108 | NRSA02J-222X | MG RESISTOR | | |
| | R 109 | NRSA02J-152X | MG RESISTOR | | |
| | R 111 | NRSA02J-562X | MG RESISTOR | | |
| | R 112 | NRSA02J-122X | MG RESISTOR | | |
| | R 113 | NRSA02J-271X | MG RESISTOR | | |
| | R 114 | NRSA02J-391X | MG RESISTOR | | |
| | R 115 | NRSA02J-332X | MG RESISTOR | | |
| | R 117 | NRSA02J-332X | MG RESISTOR | | |
| | R 118 | NRSA02J-152X | MG RESISTOR | | |
| | R 119 | NRSA02J-203X | MG RESISTOR | | |
| | R 120 | NRSA02J-102X | MG RESISTOR | | |
| | R 121 | NRSA02J-122X | MG RESISTOR | | |
| | R 202 | NRSA02J-102X | MG RESISTOR | | |
| | R 203 | NRSA02J-183X | MG RESISTOR | | |
| | R 205 | NRSA02J-220X | MG RESISTOR | | |
| | R 206 | NRSA02J-392X | MG RESISTOR | | |
| | R 207 | NRSA02J-123X | MG RESISTOR | | |
| | R 208 | NRSA02J-222X | MG RESISTOR | | |
| | R 209 | NRSA02J-152X | MG RESISTOR | | |
| | R 211 | NRSA02J-562X | MG RESISTOR | | |
| | R 212 | NRSA02J-122X | MG RESISTOR | | |
| | R 213 | NRSA02J-271X | MG RESISTOR | | |
| | R 214 | NRSA02J-391X | MG RESISTOR | | |
| | R 215 | NRSA02J-332X | MG RESISTOR | | |
| | R 217 | NRSA02J-332X | MG RESISTOR | | |
| | R 218 | NRSA02J-152X | MG RESISTOR | | |
| | R 219 | NRSA02J-203X | MG RESISTOR | | |
| | R 220 | NRSA02J-102X | MG RESISTOR | | |
| | R 221 | NRSA02J-122X | MG RESISTOR | | |
| | R 301 | NRS181J-221X | MG RESISTOR | | |
| | R 302 | NRS181J-101X | MG RESISTOR | | |
| | R 304 | NRSA02J-393X | MG RESISTOR | | |
| | R 305 | NRSA02J-103X | MG RESISTOR | | |
| | R 306 | NRSA02J-103X | MG RESISTOR | | |
| | R 307 | NRSA02J-103X | MG RESISTOR | | |
| | R 308 | NRSA02J-152X | MG RESISTOR | | |
| | R 309 | NRSA02J-152X | MG RESISTOR | | |
| | R 310 | NRS181J-820X | MG RESISTOR | | |
| | R 311 | NRS181J-820X | MG RESISTOR | | |
| | R 313 | NRSA02J-3R3X | MG RESISTOR | | |
| | R 314 | NRSA02J-223X | MG RESISTOR | | |
| | R 315 | NRSA02J-100X | MG RESISTOR | | |
| | R 316 | NRSA02J-223X | MG RESISTOR | | |
| | R 317 | NRSA02J-100X | MG RESISTOR | | |
| | R 318 | NRSA02J-123X | MG RESISTOR | | |
| | R 319 | NRSA02J-152X | MG RESISTOR | | |
| | R 321 | NRSA02J-123X | MG RESISTOR | | |
| | R 322 | NRSA02J-152X | MG RESISTOR | | |
| | R 327 | NRSA02J-474X | MG RESISTOR | | |
| | R 328 | NRSA02J-222X | MG RESISTOR | | |

## ■ Cassette switch board

BLOCK NO. 06

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | R 329 | NRSA02J-222X | MG RESISTOR | | |
| | R 330 | NRSA02J-0ROX | MG RESISTOR | | |
| | R 335 | NRSA02J-222X | MG RESISTOR | | |
| | R 336 | NRSA02J-392X | MG RESISTOR | | |
| | R 338 | NRSA02J-222X | MG RESISTOR | | |
| | R 339 | NRSA02J-222X | MG RESISTOR | | |
| | R 341 | NRSA02J-222X | MG RESISTOR | | |
| | R 343 | NRSA02J-0ROX | MG RESISTOR | | |
| | R 345 | NRSA02J-222X | MG RESISTOR | | |
| | R 346 | NRSA02J-0ROX | MG RESISTOR | | |
| | R 347 | NRSA02J-392X | MG RESISTOR | | |
| | R 348 | NRSA02J-222X | MG RESISTOR | | |
| | R 350 | NRSA02J-472X | MG RESISTOR | | |
| | R 351 | NRSA02J-151X | MG RESISTOR | | |
| | R 353 | NRSA02J-472X | MG RESISTOR | | |
| | R 354 | NRSA02J-151X | MG RESISTOR | | |
| | R 355 | NRSA02J-332X | MG RESISTOR | | |
| | R 357 | NRSA02J-103X | MG RESISTOR | | |
| | R 358 | NRSA02J-222X | MG RESISTOR | | |
| | R 359 | NRSA02J-123X | MG RESISTOR | | |
| | R 360 | NRSA02J-433X | MG RESISTOR | | |
| | R 361 | NRSA02J-183X | MG RESISTOR | | |
| | R 362 | NRSA02J-123X | MG RESISTOR | | |
| | R 363 | NRSA02J-183X | MG RESISTOR | | |
| | R 364 | NRSA02J-433X | MG RESISTOR | | |
| | R 365 | NRSA02J-203X | MG RESISTOR | | |
| | R 366 | NRSA02J-123X | MG RESISTOR | | |
| | R 367 | NRSA02J-102X | MG RESISTOR | | |
| | R 368 | NRSA02J-391X | MG RESISTOR | | |
| | R 369 | NRSA02J-391X | MG RESISTOR | | |
| | R 371 | NRS181J-222X | MG RESISTOR | | |
| | R 374 | NRSA02J-912X | MG RESISTOR | | |
| | R 375 | NRSA02J-683X | MG RESISTOR | | |
| | R 376 | NRS181J-6R8X | MG RESISTOR | | |
| | VR101 | QVP0008-503Z | SEMI V RESISTOR | | |
| | VR201 | QVP0008-503Z | SEMI V RESISTOR | | |
| | VR301 | QVP0008-103Z | SEMI V RESISTOR | | |
| | WIRE | EWR34D-10CS | FLAT WIRE | | |

BLOCK NO. 07

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | CN 1 | QGB2011L1-10 | B TO B CONNECTO | | |
| | D 1 | 1SR139-400-T2 | SI DIODE | | |
| | IC 1 | SG-105F3-BB,C | PHOTO SENSER | | |
| | P 1 | QNZ0104-001 | POST PIN | | |
| | SW 2 | QSW0832-001 | LEAF SWITCH | TAPE | |
| | SW 4 | QSW0832-001 | LEAF SWITCH | 70U | |
| | SW 6 | QSW0507-001 | SWITCH | | |

## ■ Cassette switch board

BLOCK NO. 08□□□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|---|---|---|---|---|
| | CN 1 | QGB2011L1-10 | B TO B CONNECTO | | |
| | D 1 | 1SR139-400-T2 | SI DIODE | | |
| | IC 1 | SG-105F3-BB,C | PHOTO SENSER | | |
| | P 1 | QNZ0104-001 | POST PIN | | |
| | SW 1 | QSW0832-001 | LEAF SWITCH | R.REC | |
| | SW 2 | QSW0832-001 | LEAF SWITCH | TAPE | |
| | SW 4 | QSW0832-001 | LEAF SWITCH | 7OU | |
| | SW 5 | QSW0832-001 | LEAF SWITCH | F.REC | |
| | SW 6 | QSW0507-001 | SWITCH | | |
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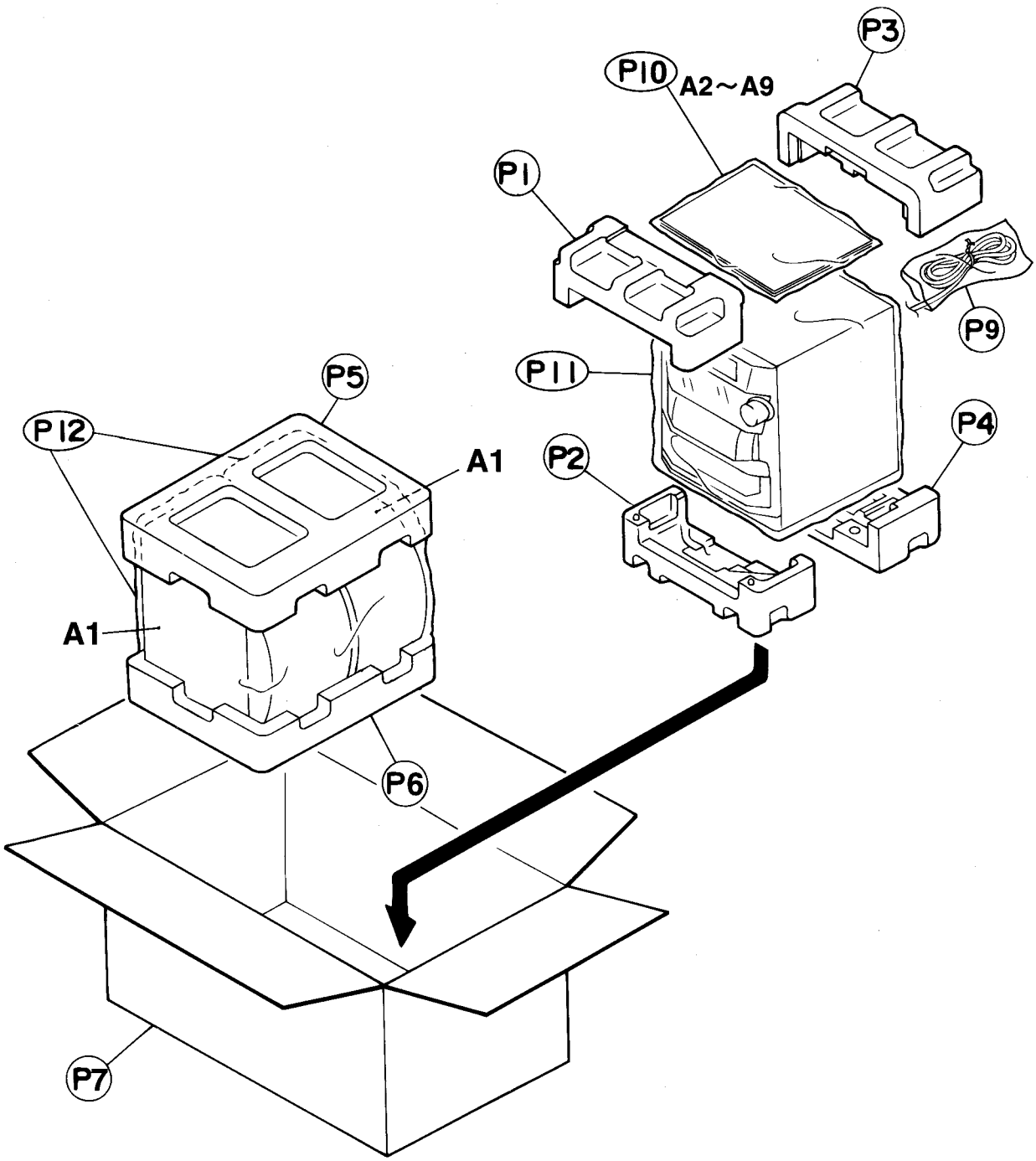
| | | | | | |

# Packing materials and accessories parts list

Block No.M 5 M M
Block No.M 6 M M

**(EE Version)**



## ■ Packing parts list (EE version)

BLOCK NO. M5MM□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | P 1 | GJ560170140101 | CUSHION | FRONT TOP | 1 | EE | |
| | P 2 | GJ560170150101 | CUSHION | FRONT BOTTOM | 1 | EE | |
| | P 3 | GJ560170160101 | CUSHION | REAR TOP | 1 | EE | |
| | P 4 | GJ560170170101 | CUSHION | REAR BOTTOM | 1 | EE | |
| | P 5 | GJ560170130101 | CUSHION | SPEAKER TOP | 1 | EE | |
| | P 6 | GJ560170120101 | CUSHION | SPEAKER BOTTOM | 1 | EE | |
| | P 7 | GJ560170310101 | CARTON | | 1 | EE | |
| | P 9 | GJ740122550000 | POLY BAG | | 1 | EE | |
| | P 10 | GJ740362550000 | POLY BAG | | 1 | EE | |
| | P 11 | GJ740666420300 | POLY BAG | | 1 | EE | |
| | P 12 | ---------- | POLY BAG | SPEAKER BOX | 2 | EE | |

## ■ Accessories parts list (EE version)

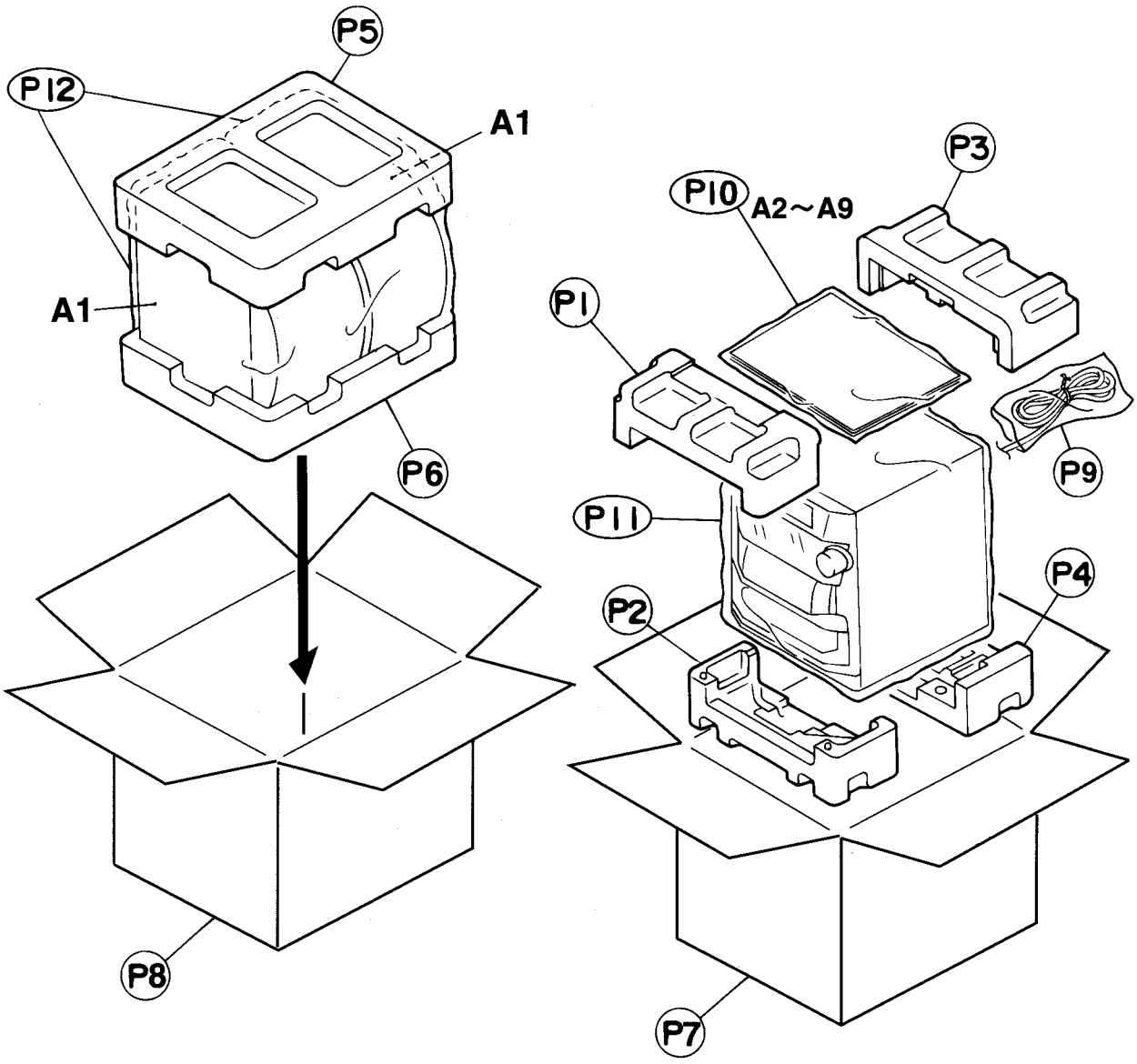
BLOCK NO. M6MM□□□

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | A 1 | MXJ10K-SPBOX | SPEAKER BOX | | 2 | EE | |
| | A 2 | RM-MXJ10/E/ | W.LESS REMOCON | | 1 | EE | |
| | A 3 | ---------- | BATTERY | | 1 | EE | |
| | A 4 | GJ351001432431 | FM ANTENNA | | 1 | EE | |
| | A 5 | GJ460220010201 | AM LOOP ANTENNA | | 1 | EE | |
| | A 6 | LVT0301-010A | INSTRUCTIONS | | 1 | EE | |
| | A 9 | BT-54012-1 | WARRANTY CARD | | 1 | EE | |

# Packing materials and accessories parts list

Block No.M 5 M M
Block No.M 6 M M

**(B/E/EN/EV Version)**



## ■Packing parts list (B/E/EN/EV version)

BLOCK NO. M5MM[][][]

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | P 1 | GJ560170240101 | CUSHION | FRONT TOP | 1 | B,E,EN,EV | |
| | P 2 | GJ560170250101 | CUSHION | FRONT BOTTOM | 1 | B,E,EN,EV | |
| | P 3 | GJ560170260101 | CUSHION | REAR TOP | 1 | B,E,EN,EV | |
| | P 4 | GJ560170270101 | CUSHION | REAR BOTTOM | 1 | B,E,EN,EV | |
| | P 5 | GJ560170130101 | CUSHION | SPEAKER TOP | 1 | B,E,EN,EV | |
| | P 6 | GJ560170120101 | CUSHION | SPEAKER BOTTOM | 1 | B,E,EN,EV | |
| | P 7 | GJ560170230101 | CARTON | MAIN UNIT | 1 | B,E,EN,EV | |
| | P 8 | GJ560170220101 | CARTON | SPEAKER | 1 | B,E,EN,EV | |
| | P 9 | GJ740122550000 | POLY BAG | | 1 | B,E,EN,EV | |
| | P 10 | GJ740362550000 | POLY BAG | | 1 | B,E,EN,EV | |
| | P 11 | GJ740666420300 | POLY BAG | | 1 | B,E,EN,EV | |
| | P 12 | ---------- | POLY BAG | SPEAKER BOX | 2 | B,E,EN,EV | |

## ■Accessories parts list (B/E/EN/EV version)

BLOCK NO. M6MM[][][]

| ⚠ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|---|---|---|---|---|---|---|
| | A 1 | MXJ10K-SPBOX | SPEAKER BOX | | 2 | B,E,EN,EV | |
| | A 2 | RM-MXJ10/E/ | W.LESS REMOCON | | 1 | B,E,EN,EV | |
| | A 3 | ---------- | BATTERY | | 1 | B,E,EN,EV | |
| | A 4 | GJ351001432431 | FM ANTENNA | | 1 | B,E,EN,EV | |
| | A 5 | GJ460220010201 | AM LOOP ANTENNA | | 1 | B,E,EN,EV | |
| | A 6 | LVT0301-003A | INSTRUCTIONS | | 1 | B | |
| | | LVT0301-008A | INSTRUCTIONS | | 1 | E | |
| | | LVT0301-009A | INSTRUCTIONS | | 1 | EN | |
| | | LVT0301-011A | INSTRUCTIONS | | 1 | EV | |
| | A 7 | VNA3000-202 | REGIST.CARD | | 1 | B | |
| | A 8 | E43486-340B | SAFETY INST | | 1 | B | |
| | A 9 | BT-54008-2 | WARRANTY CARD | | 1 | E,EN | |
| | | BT-54012-1 | WARRANTY CARD | | 1 | EV | |